

ORDER NO. ARP1314

# STEREO DOUBLE CASSETTE TAPE DECK AMPLIFIER CONTROL CONT

### MODEL DC-X99Z COMES IN FOUR VERSIONS DISTINGUISHED AS FOLLOWS:

Туре	Power requirement	Export destination	
HE	AC220V, 240V (switchable) *	European continent	
нв	AC220V, 240V (switchable) *	United Kingdom	
SD	AC110V, 120-127V, 220V, 240V (switchable)	General market	
HEZ	AC220V, 240V (switchable)*	West Germany	

<sup>\*</sup> Change the primary wiring, please refer to page 44.

- This service manual is applicable to the HE, HB and SD types.
- As to the HB and SD types, please refer to pages 43-44.
- As to the HEZ type, please refer to the additional service manual (ARP1315).
- Ce manual d'instruction se refèr au mode de réglage, en français.
- Este manual de servicio trata del métode ajuste escrito en español.

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	PACKING				_

PIONEER ELECTRONIC CORPORATION 4-1. Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A. TEL: [213] 835-6177 PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 688 Canada TEL: [416] 479-4411 PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium TEL: 03/775 - 28 - 08 PIONEER ELECTRONICS AUSTRALIA PTY, LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911



### 1. EXPLODED VIEW

#### NOTES:

- Parts without part number cannot be supplied.
- The i mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

. >

designation.

For your Parts Stock Control, the fast moving items are indicated with the marks \*\* and \*.

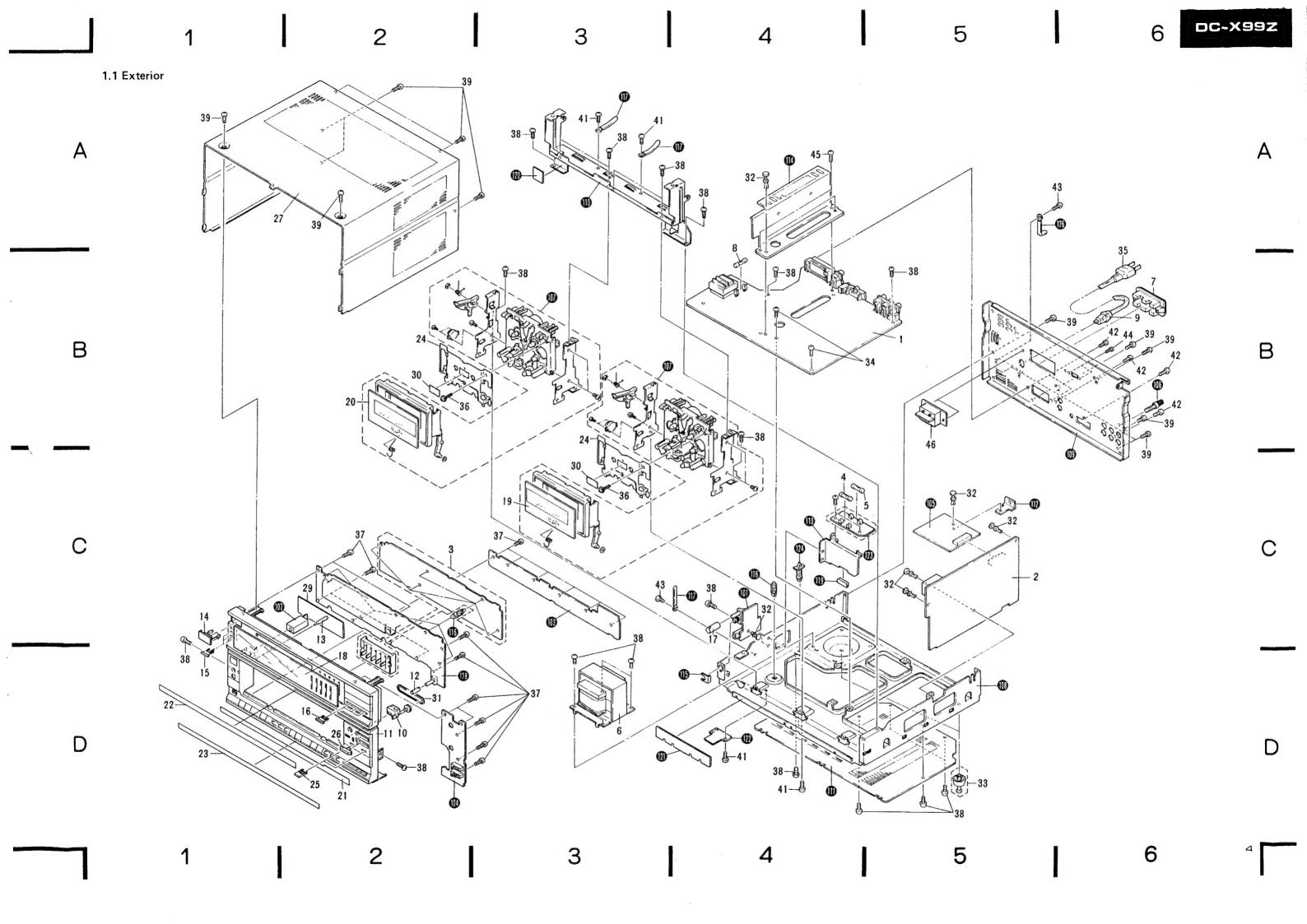
\*\* GENERALLY MOVES FASTER THAN \*\*

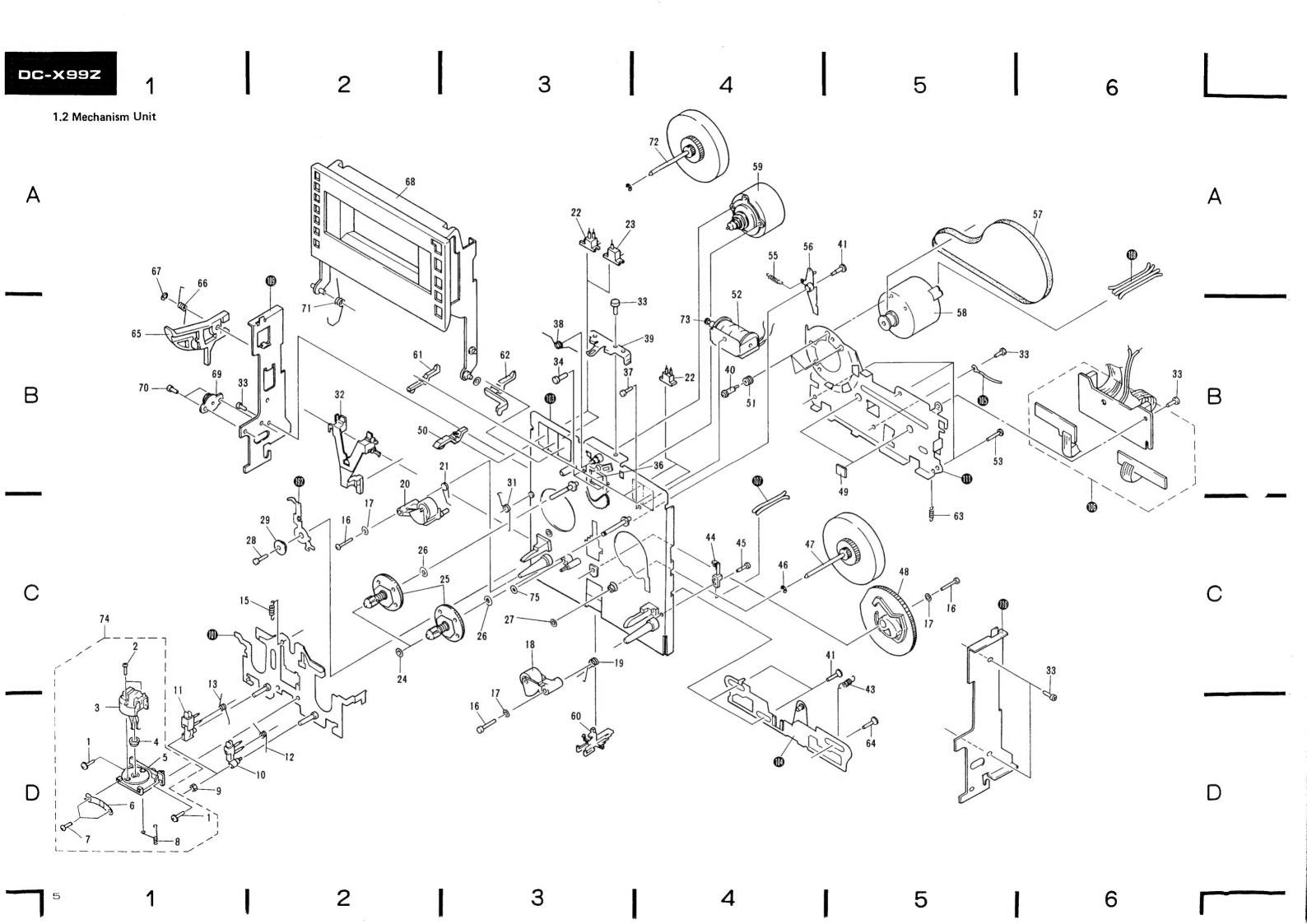
This classification should be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

 Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

### Parts List of Exterior

<b>A</b> ★ ★ <b>A A A</b>	1 2 3 4 5 6 7 8 9 10	AWZ1306 AWZ1230 AWZ1226 AEK-402 AEK-403 ATS1058 (AC220/240V AKP-502 AEK-017 AEC-882 AAW1002	Power µCOM assembly TAPE assembly GEQ E-VR assembly FU1 Fuse (T1A/250V) FU3 Fuse (T2.5A/250V)  T1 Power transformer  // AC socket (AC OUTLETS) FU2 Fuse (2A/250V) Strain relief	Δ **	38 39 40 41 42 43 44 45	Part No.  BBZ30P080FMC BBZ30P080FZK  VCZ30P060FMC BPZ30P080FZK BCZ30P060FZK VMZ30P060FZK VMZ30P060FZK	Description  Screw Screw Screw Screw Screw Screw Screw Screw
© A ★ ★ A ★ ★ A ★	3 4 5 6 7 8 9	AWZ1226 AEK-402 AEK-403 ATS1058 (AC220/240V AKP-502 AEK-017 AEC-882	TAPE assembly GEQ E-VR assembly FU1 Fuse (T1A/250V) FU3 Fuse (T2.5A/250V)  T1 Power transformer // AC socket (AC OUTLETS) FU2 Fuse (2A/250V)	A ++	39 40 41 42 43 44	BBZ30P080FZK  VCZ30P060FMC BPZ30P080FZK BCZ30P060FZK VMZ30P060FZK	Screw Screw Screw Screw
Δ ★ ★ Δ ★ Δ Δ ★ Δ	4 5 6 7 8 9	AEK-402 AEK-403 ATS1058 (AC220/240V AKP-502 AEK-017 AEC-882	FU1 Fuse (T1A/250V) FU3 Fuse (T2.5A/250V)  T1 Power transformer /) AC socket (AC OUTLETS) FU2 Fuse (2A/250V)	A ++	40 41 42 43 44	VCZ30P060FMC BPZ30P080FZK BCZ30P060FZK VMZ30P060FZK	Screw Screw Screw
<b>A</b> * * A	5 6 7 8 9	AEK-403 ATS1058 (AC220/240V AKP-502 AEK-017 AEC-882	FU1 Fuse (T1A/250V) FU3 Fuse (T2.5A/250V)  T1 Power transformer /) AC socket (AC OUTLETS) FU2 Fuse (2A/250V)	A ++	41 42 43 44	BPZ30P080FZK BCZ30P060FZK VMZ30P060FZK	Screw Screw Screw
Δ <b>*</b> Δ <b>*</b>	6 7 8 9	ATS1058 (AC220/240V AKP-502 AEK-017 AEC-882	T1 Power transformer  /)  AC socket (AC OUTLETS)  FU2 Fuse (2A/250V)	A ++	42 43 44	BPZ30P080FZK BCZ30P060FZK VMZ30P060FZK	Screw Screw
_ Δ Δ**	7 8 9 10	(AC220/240V AKP-502 AEK-017 AEC-882	/) AC socket (AC OUTLETS) FU2 Fuse (2A/250V)	A ++	43 44	BCZ30P060FZK VMZ30P060FZK	Screw
Δ * Δ * ± Δ	7 8 9 10	(AC220/240V AKP-502 AEK-017 AEC-882	/) AC socket (AC OUTLETS) FU2 Fuse (2A/250V)	A ++	44	VMZ30P060FZK	
<b>A</b> **	8 9 10	AKP-502 AEK-017 AEC-882	AC socket (AC OUTLETS) FU2 Fuse (2A/250V)	A ++			Screw
<b>A</b> **	8 9 10	AEK-017 AEC-882	FU2 Fuse (2A/250V)	A ++	45		
	9	AEC-882	FU2 Fuse (2A/250V)	A ++		ABZ30P100FMC	Screw
Æ.	10		Strain relief	A			
		AAW1002		44 - 5	46	ASH-501	Slide switch
	11		Tape counter			(MAIN POWER)	
		AMB1142	Front panel assembly				
	12	AAB-411	Knob (REC LEVEL)				
	13	AAD1094	Knob (ADJUST)		101		****
	14	AAD1090	Knob (POWER)		102		MIC headphone assemb
	15	AAD1091	Knob E(TIMER MODO)		103		Remote sensor assembly
			,		103		Tact SW assembly
	16	AAD1092	knob E(MUTING, BALANCE)		105		DOLBY SW assembly
	17	AAB1016	Knob (MIXING)		105		DOLBY B/C assembly
	18	AAK1202	P.C. panel		106		_
	19	AAK1198	Cassette plate		106		Terminal (GND)
	20	AAK1155	Cassette plate		-		Mechanism unit
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		108		Chassis
	21	AAK1197	Deck panel		109		Rear panel
:	22	AAP1047	Alminum panel		110		Panel stay
:	23	AAP1025	Alminum panel				
:	24	AAP1028	Mechanism cover		111		Bottom plate
:	25	AAY-355	Push knob C (GRAPHIC EQ		112		F.E. holder
			REC, RELAY PLAY/REC)		113		Transformer holder
					114		Heat sink
1	26	AAY-397	Clide back (Day (Day)		115		Mounting plate
		ANE1056	Slide knob (REVERSE MODE)		440		
	28	AITE1050	Bonnet case		116		PCB holder
	-	AAK1152	F1 F1.		117		Binder
		AAX1053	FL filter		118		FL assembly
•		~~^1033	Fluorescent sheet		119		Rubber B
2	31 .	AEB1033	Course to to		120		Rubber A
		AEC-525	Counter belt				
		AEC-525 AEC-847	Nylon rivet		121		Barrier
	34	ALC-04/	Leg assembly		122		Hole cover
		ADG-041			123		Fuse assembly
3	, ,		AC power cord		124		PCB holder
		(AC250V)			125		PCB holder
_	_	ATT26P120FZK BBZ26P080FMC	Screw Screw		126		Binder





#### NOTES:

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  - \*\* GENERALLY MOVES FASTER THAN \*
  - This classification should be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
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### Parts List of Mechanism Unit I, II

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	AXT-010	Screw with washer	**	44	AXN-036	Leaf switch (PLAY)
	2	ATX-015	Screw		45	AZB1049	Screw
**	3	AZP1011	REC/PB head				
	4	AXS-123	Cushion		46	AZB1050	Washer
	5	AXP-049	HD base		47	AZN1218	F/W assembly (R)
					48	AZN1219	Cam gear (E)
	6	AXV-120	Spring		49	AZN1226	Spacer
	7	AXT-016	Screw		50	AZ\$1025	PACK detector lever
	8	AXV-121	Spring				
	9	AXS-109	Adjustment nut		51	AXW-038	Motor cusion
	10	AXS-110	Tape guide	*	52	AZS1028	Solenoid
			3	-	53	PBZ26P080FMC	Screw
	11	AXS-111	Sensor holder		54	1 0001 1110	
	12	AXV-107	Adjustment spring (R)		55	AXV-116	
	13	AXV-108	Adjustment spring (L)		00	AV4-110	Play arm spring
	14	7011 100			56	AZN1221	Play arm accombly
	15	AXV-109	Head base spring	**	57	AZN1221	Play arm assembly
***		*****	nead base spring	**	58		Main belt
	16	PBZ20P130FMC	Screw	**	59	AZX1010 AZX1009	Motor assembly (MAIN)
	17	WB20FMC	Washer	**	60		Motor assembly (REEL)
	18	AXP-043	Pinch roller assembly (R)		60	AXS-117	Lead holder
	19	AXV-110	Pinch roller spring (R)		61		250
	20	AZN1220			61	AZS1026	REC detector lever
	20	AZN1220	Pinch roller assembly (L)		62	AZS1027	Metal detector lever
	21	AVV/ 111	Direct college services (1)		63	AXV-117	Earth spring
**	21	AXV-111	Pinch roller spring (L)		64	AXT-013	Сар
**	22	AXN-035	Push switch		65	AZN1003	Eject cam
***	23	AZS1001	Push switch				
	24	WA16D040D020	Washer		66	AZN1006	Cam spring
	25	AXP-045	Reel assembly		67	YE20FUC	E-ring
			•••	**		AZN1216	Frame door assembly
	26	WA21 D040 D030	Washer		69	AZN1008	Damper assembly
	27	AXW-039	Washer		70	PBZ20P030FMC	Screw
	28	PBZ30P080FMC	Screw		74	A 7334 007	
	29	AXS-112	Spacer		71	AZN1227	Eject spring
	30				72	AZN1217	F/W assembly (L)
					73	AZN1228	Plunger
	31	AXV-112	Anti-eject spring(L)		74	AZP1010	REC/PB head assembly
	32	ANZ1214	Hold lever (C)		75	AZB1060	Washer
	33	PCZ30P040FMC	Screw				
	34	AZB1059	Screw with washer		101		Head plate
	35				102		Anti-eject spring
					103		Chassis
	36	AZN1215	Idler assembly		104		Slide plate
	37	PBA26P035FMC	Screw		105		Lug
	38	AXV-113	Hold spring				-
	39	AXV-114	Spring		106		Control PC assembly
	40	ATX-012	Motor set screw		107		Wire connector
					108		Wire connector
	41	AXS-114	Сар		109		Mounting plate (R)
	42				110		Mounting plate (L)
	43	AXV-115	Slide Board spring				

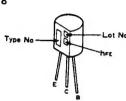
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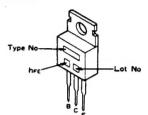


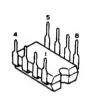
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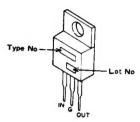


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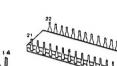
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2SA933S 2SC1740S

BA3812L

M74LS05P LC7570

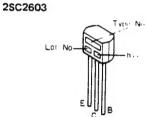


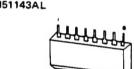




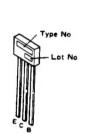
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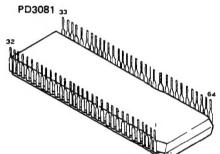
RN1203





RN2203

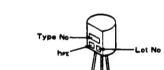




2SA1515

CX20187

STK4141-2S



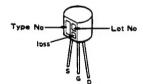


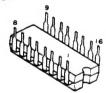


2SJ103

CXD1120P TC4019BP TC4052BP

**TA7780BN** 



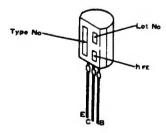


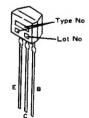


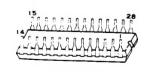
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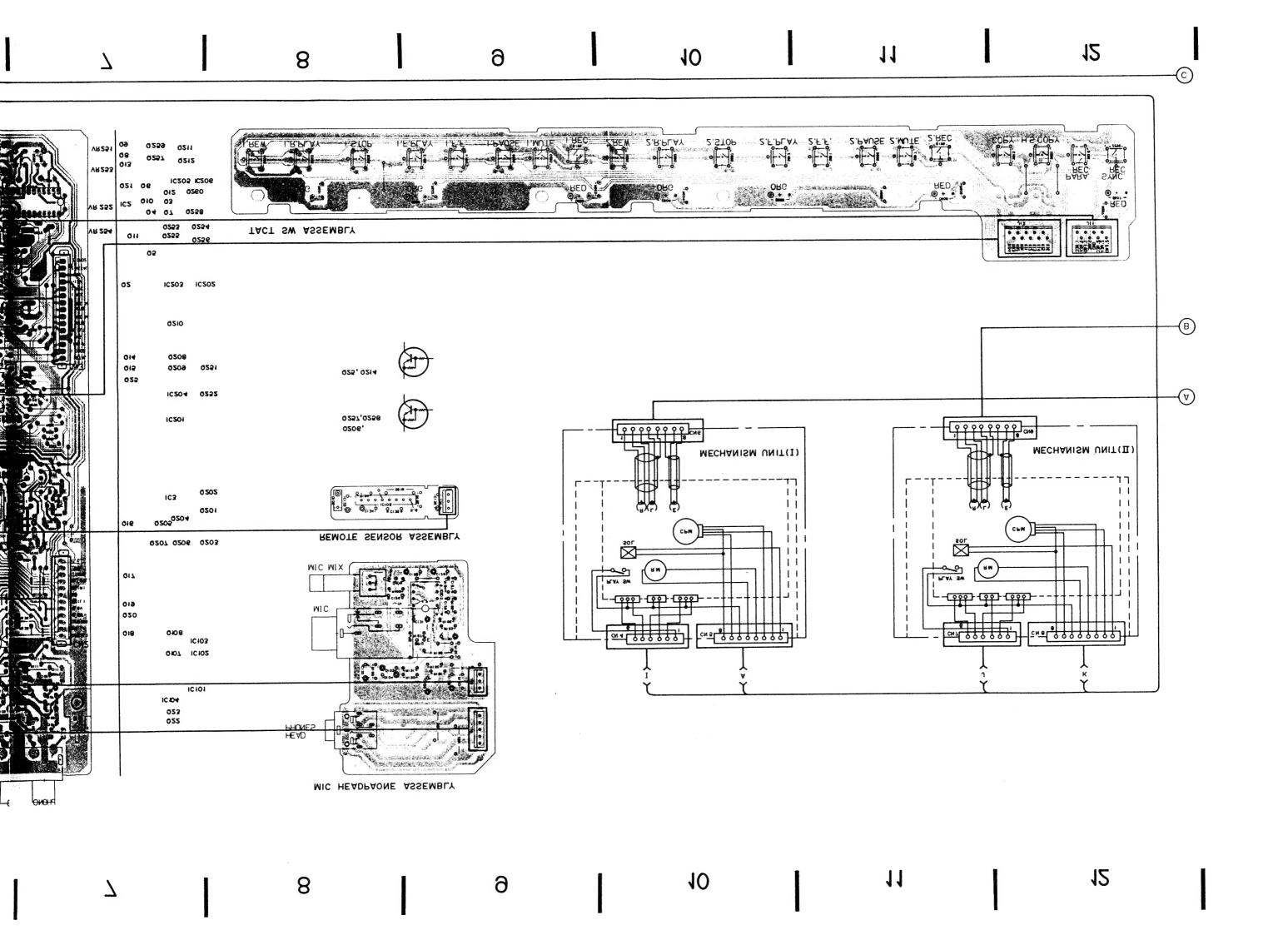
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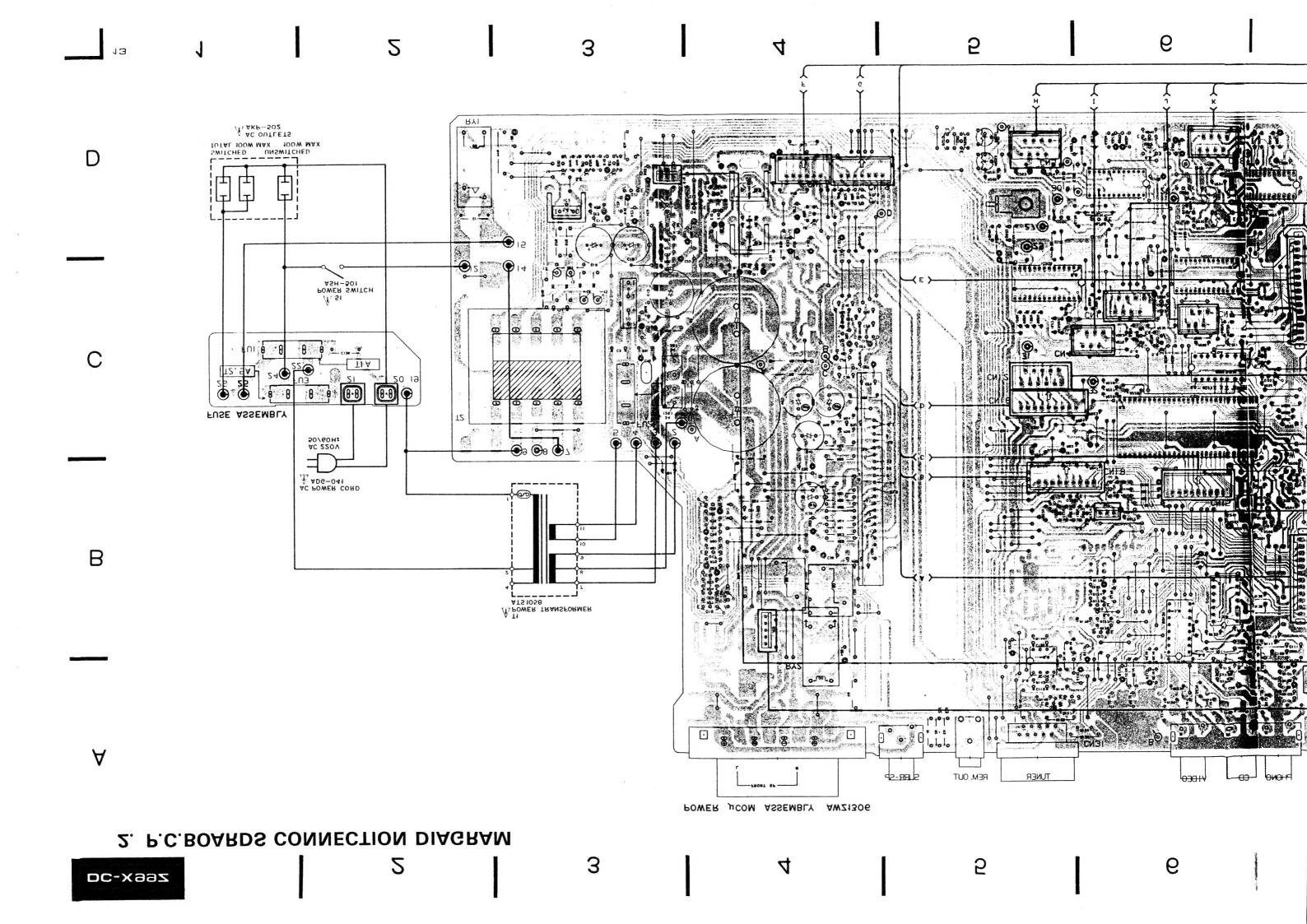
TC9312N



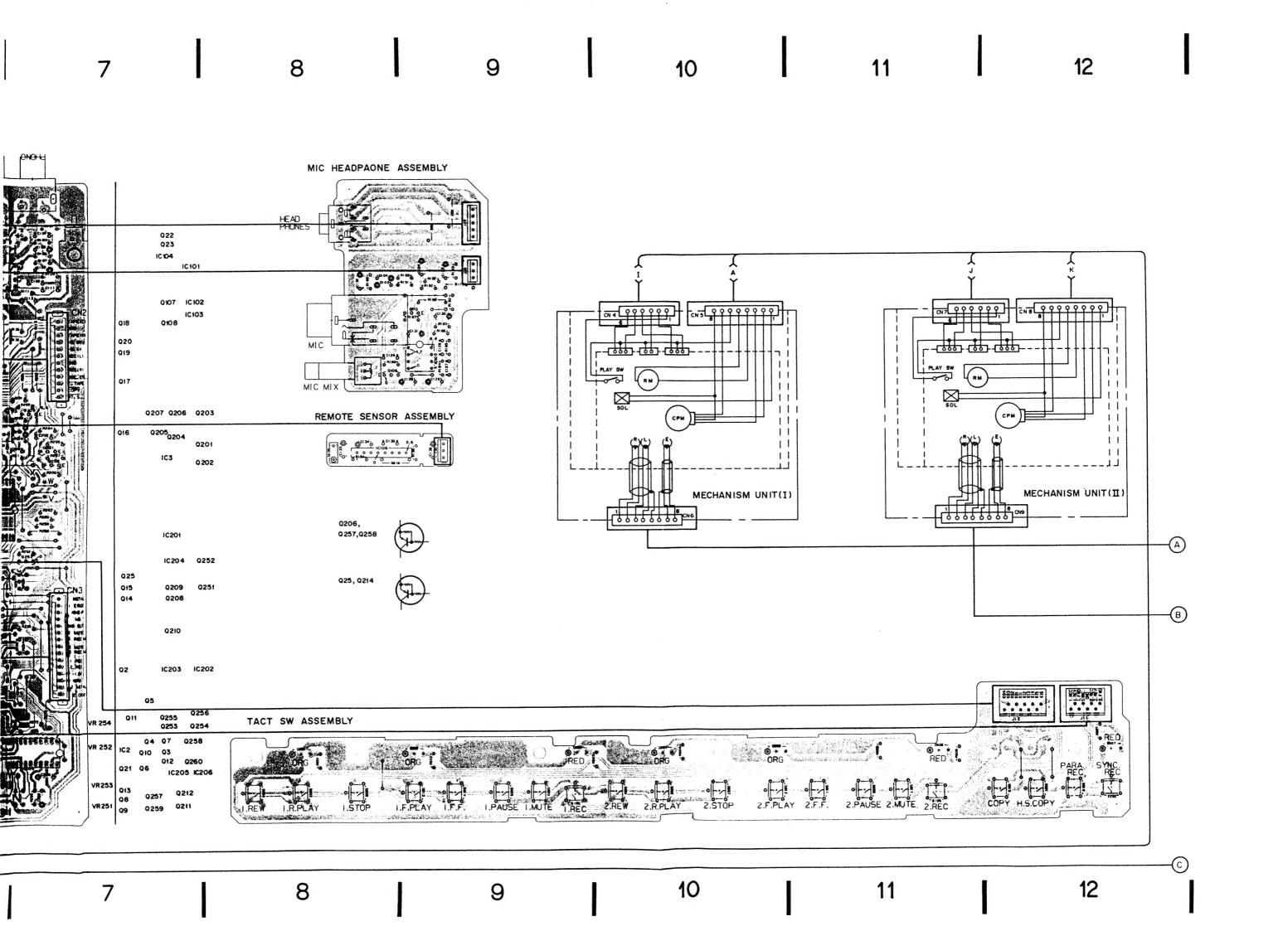


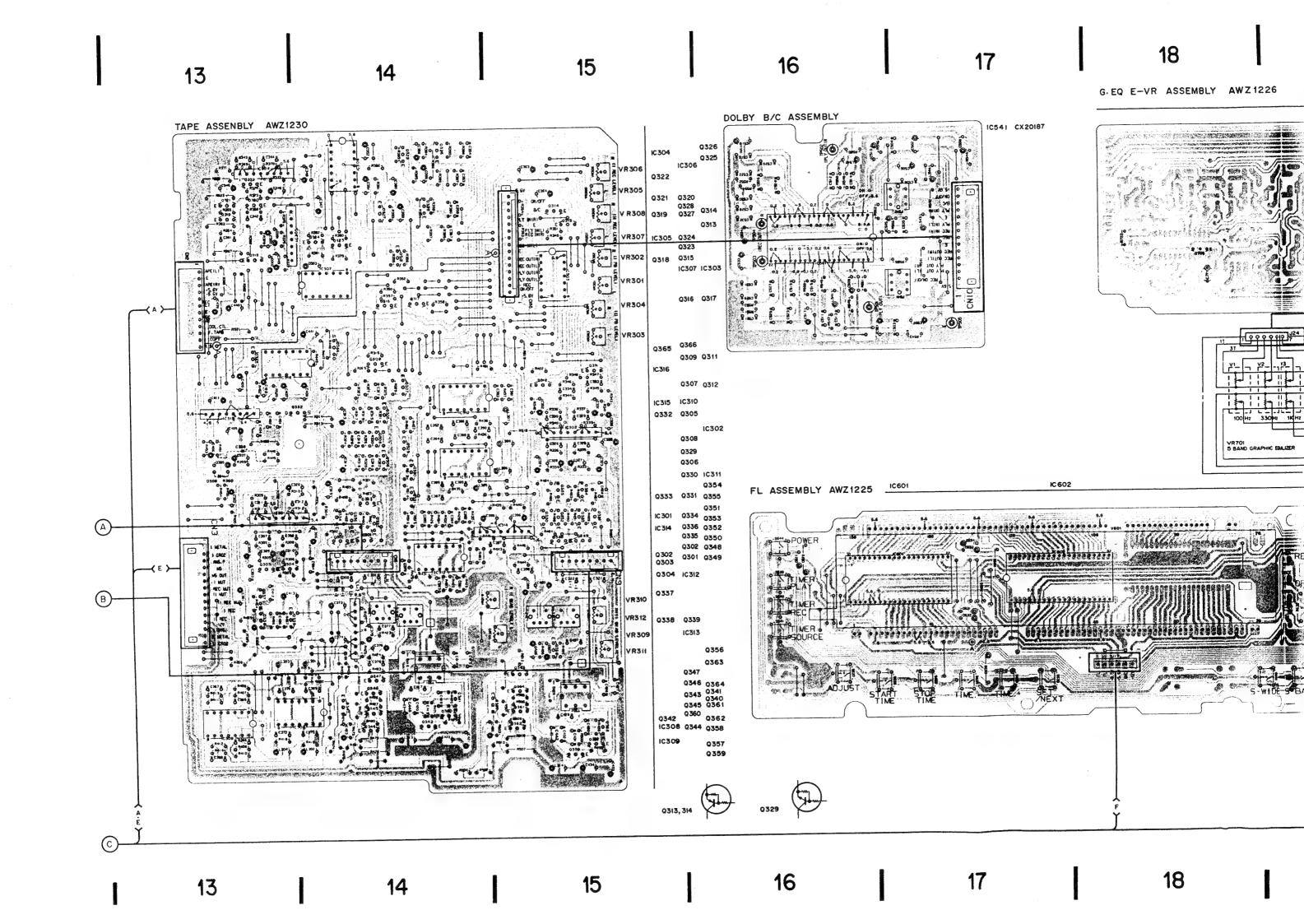


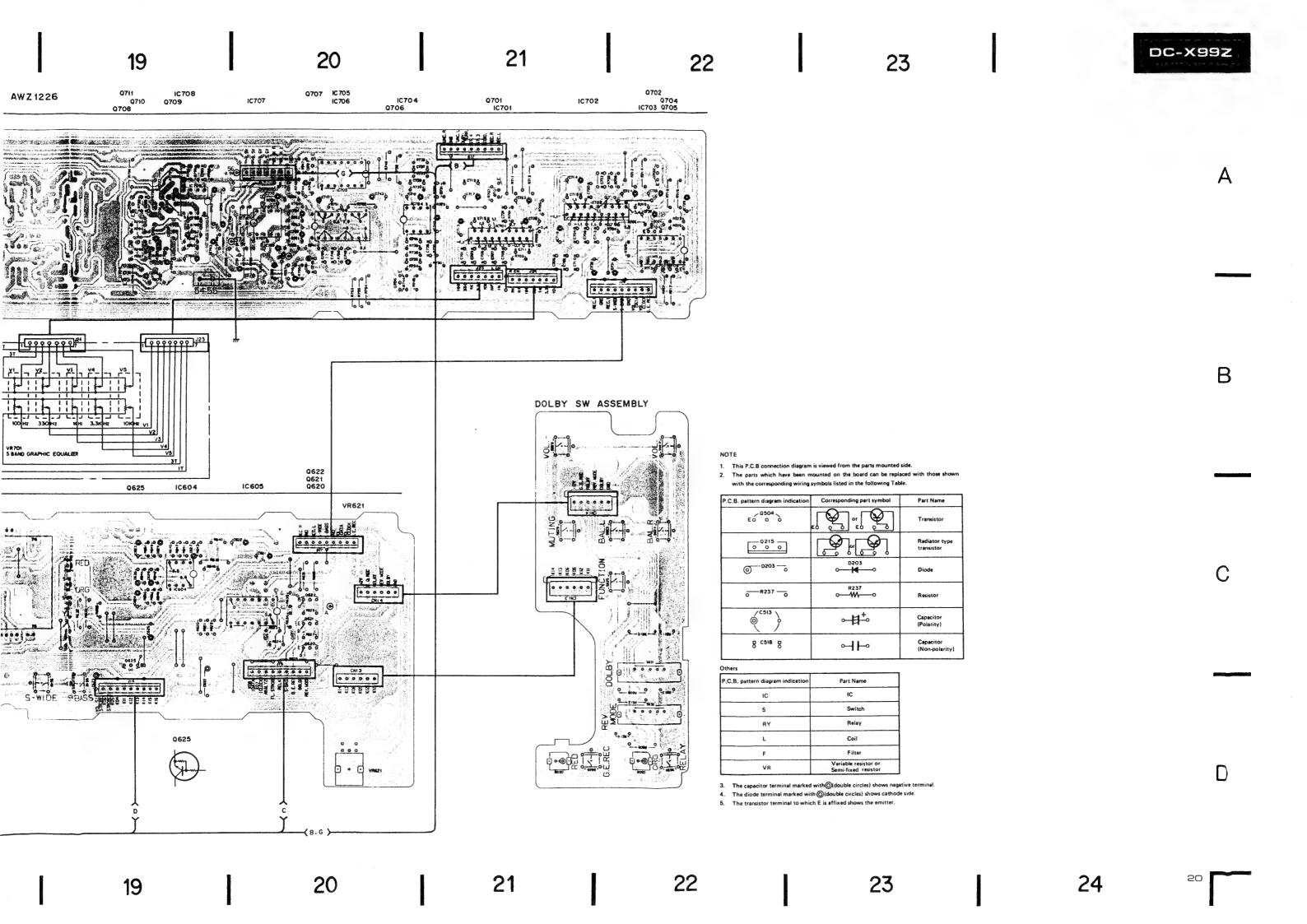


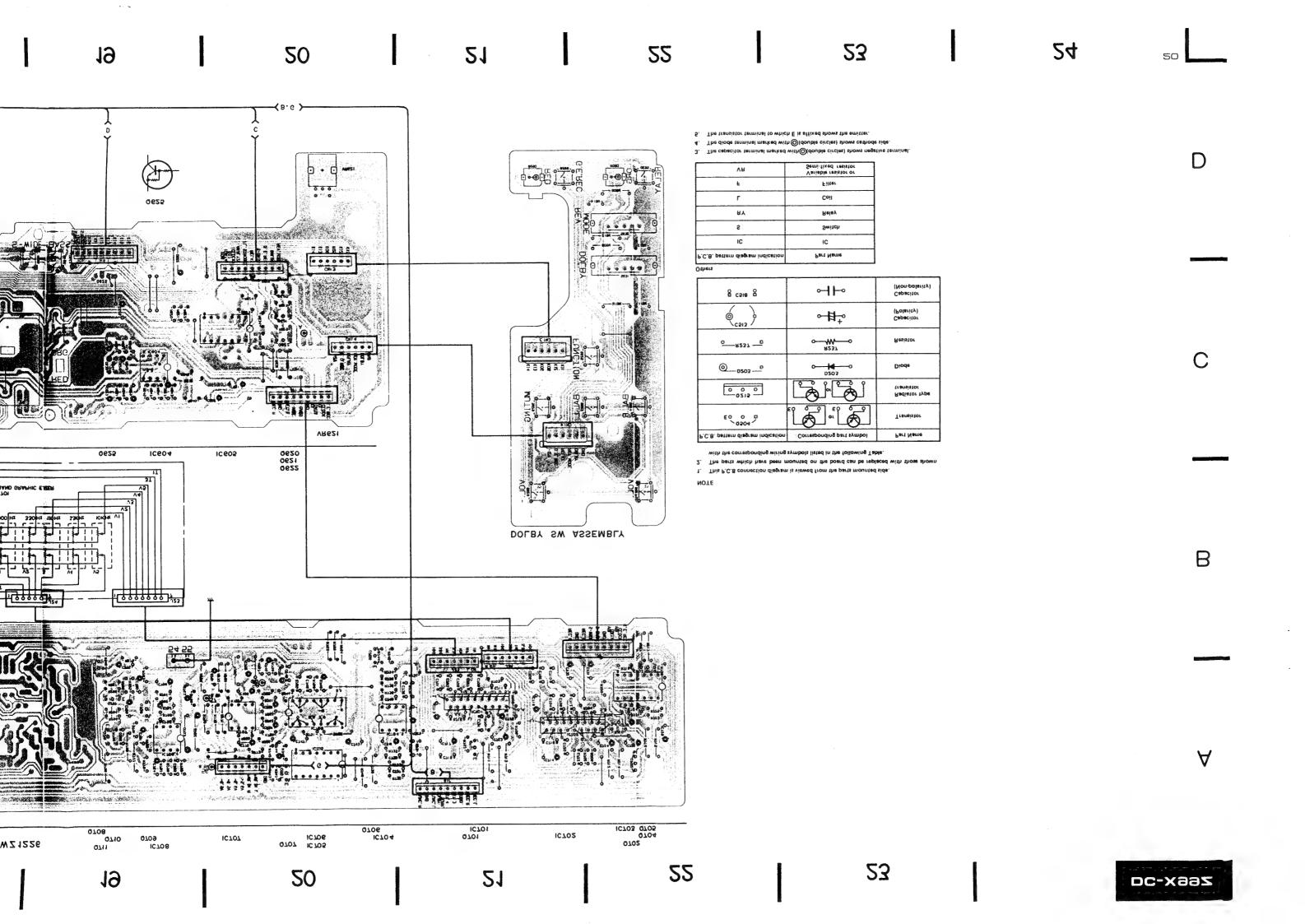


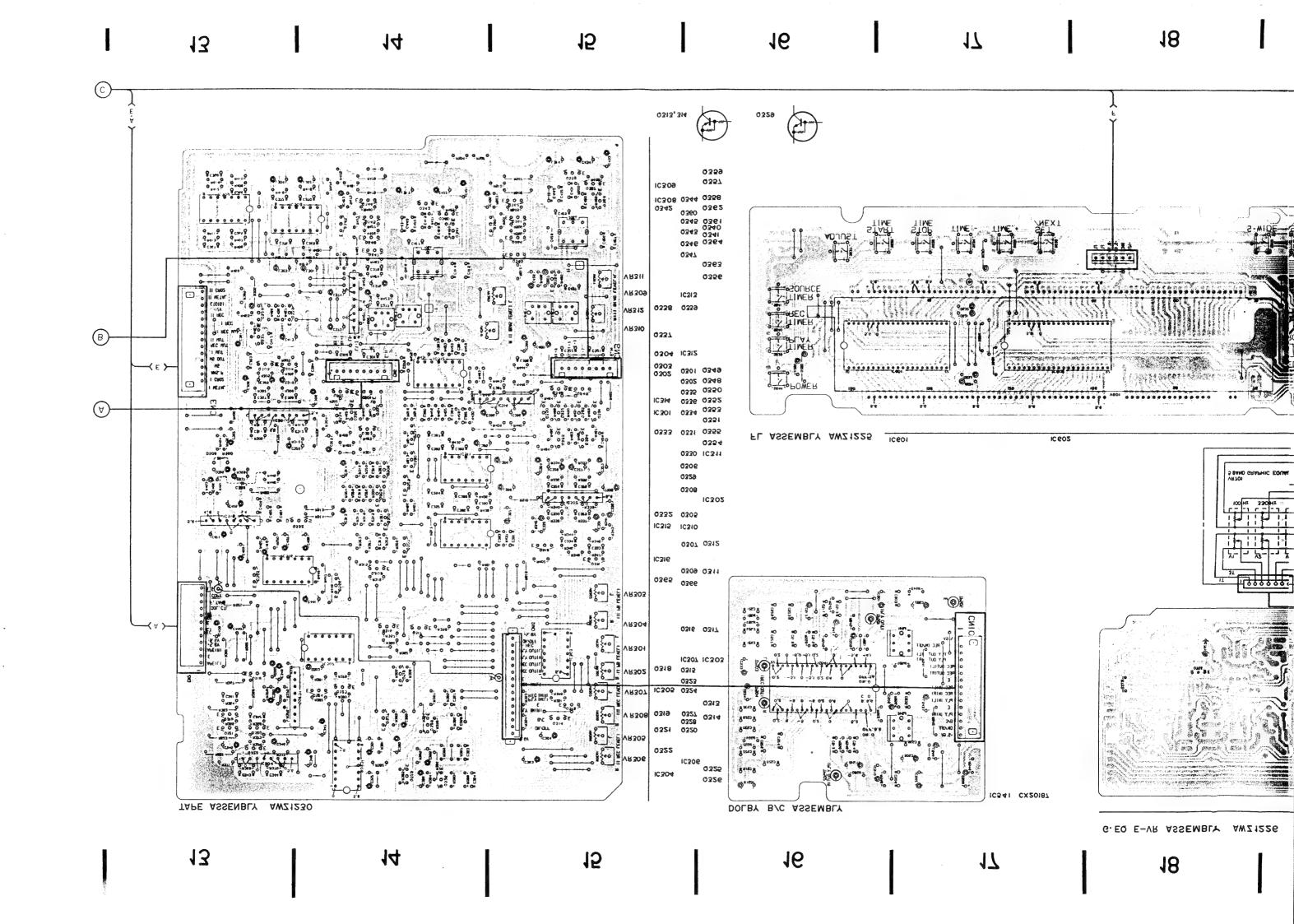
5 DC-X99Z 2. P.C.BOARDS CONNECTION DIAGRAM POWER JCOM ASSEMBLY AWZ1306 TUO ,M3R TUNER dS-881S ATI
POWER TRANSFORMER
ATS 1058 В AC POWER CORD FUSE ASSEMBLY ASH-501 SWITCHED UNSWITCHED TOTAL 100W MAX AC OUTLETS 5 6

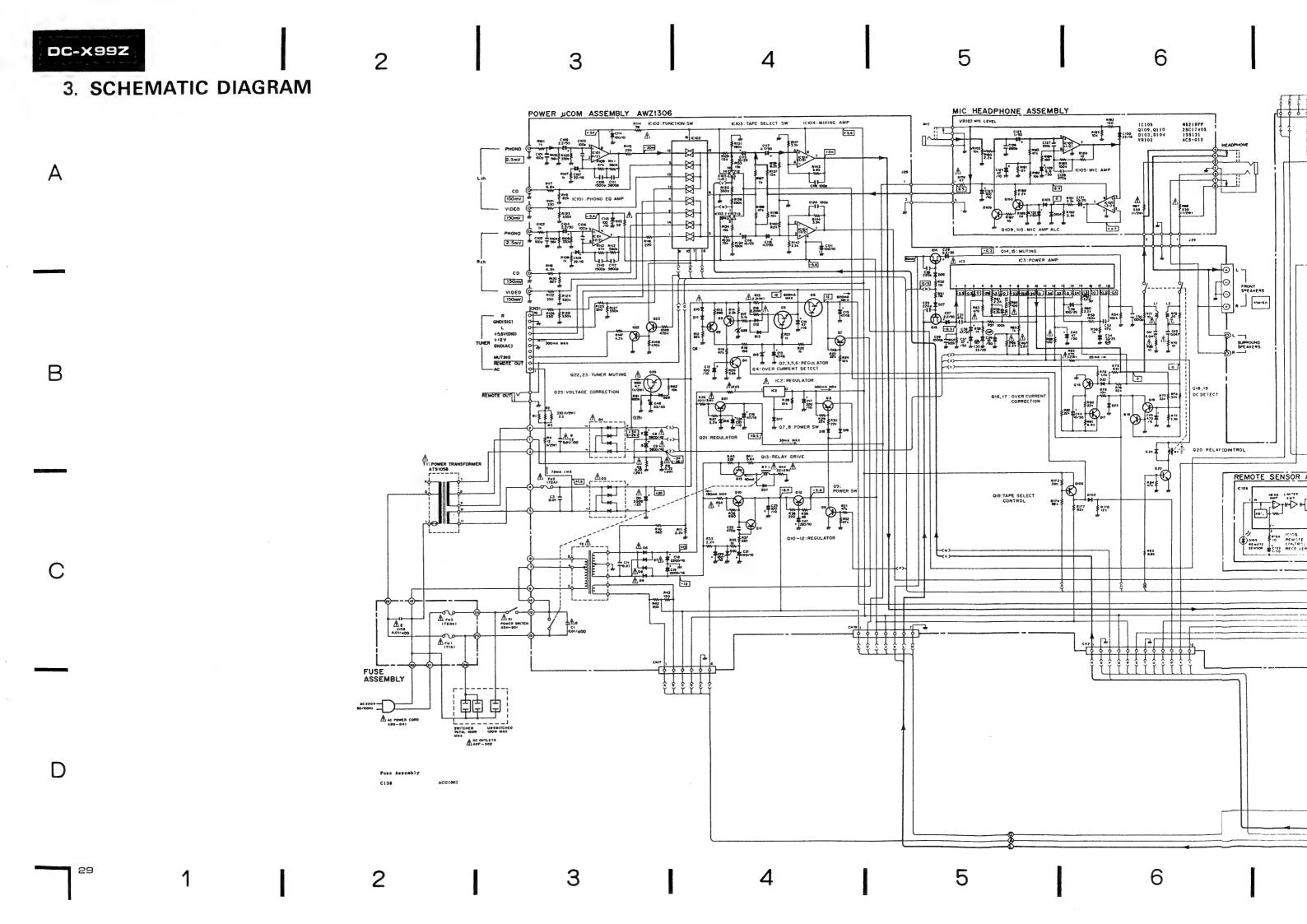


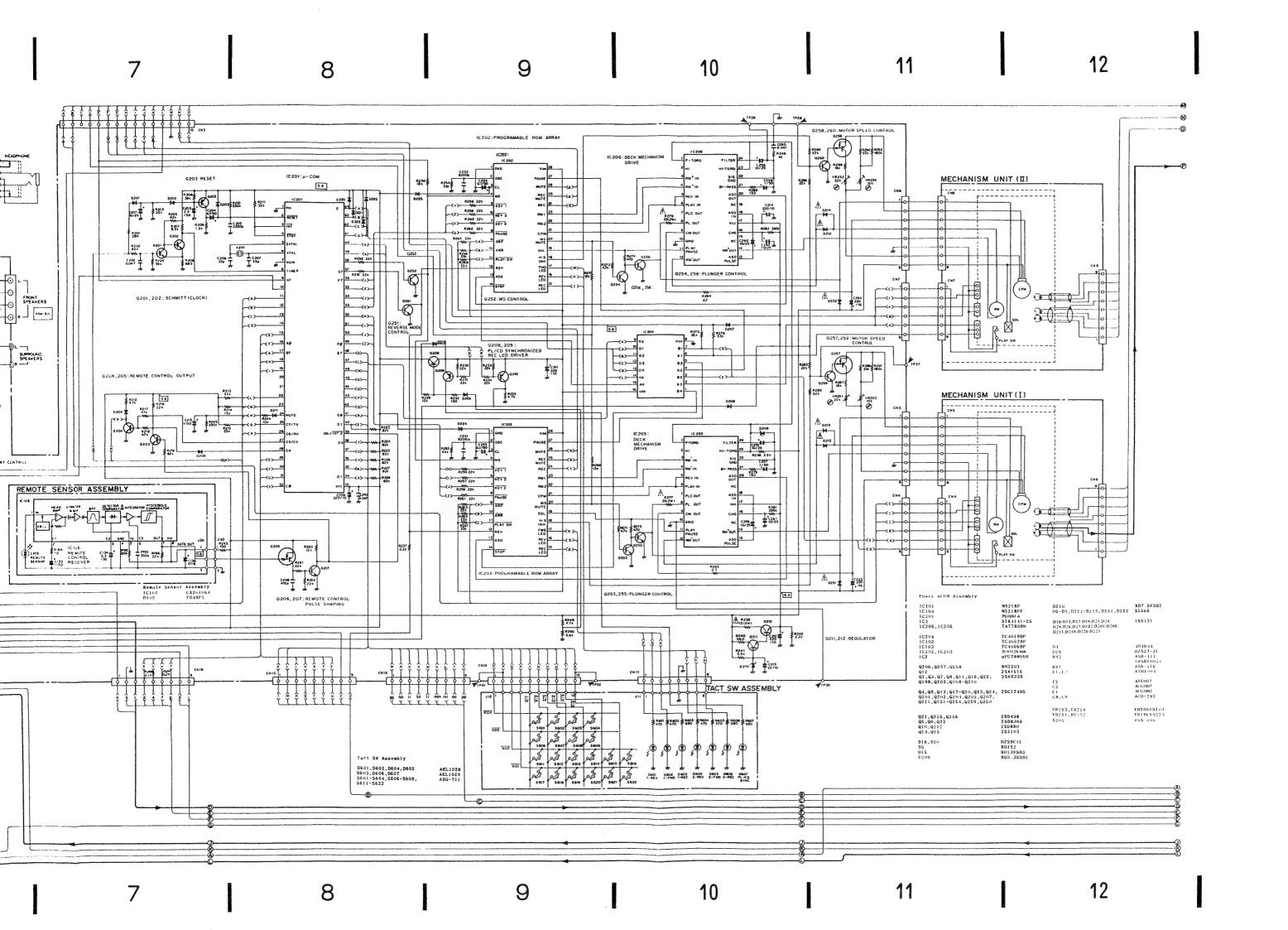


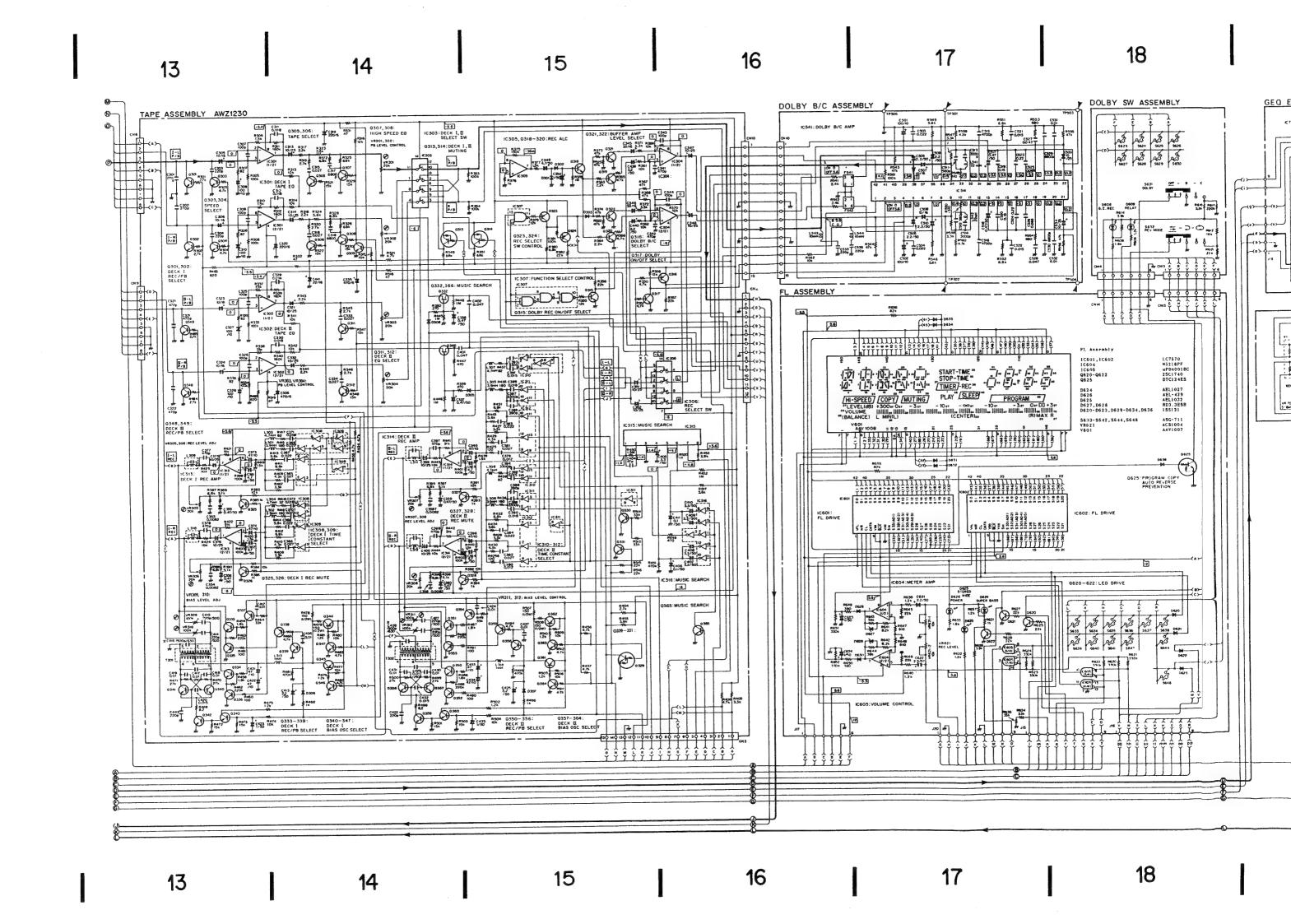


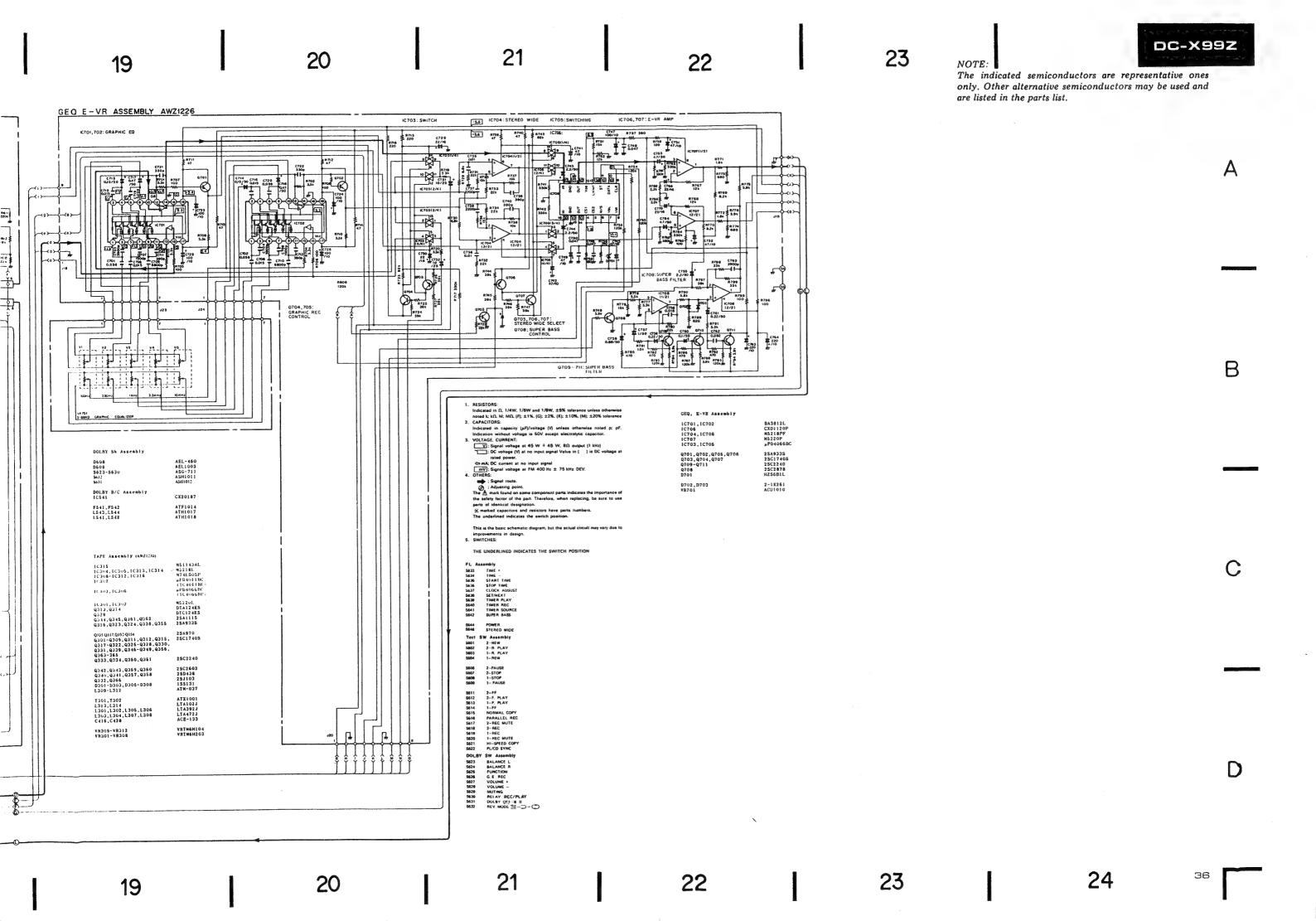














### 4. ELECTRICAL PARTS LIST

### NOTES:

• When ordering resistors, first convert resistance values into code form as shown in the following examples.

200

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω 56 × 10¹ 561 . . . . RD%PS [56] J

 $47k\Omega$   $47 \times 10^3$  473 RD%PS  $4\boxed{2}\boxed{3}$  J 

  $0.5\Omega$  0R5 RN2H 0 RS1P 0 0 RS1P 0 <td

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k\Omega$   $562\times10^{1}$   $5621\ldots RN\%SR$  [562] F

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### Miscellaneous Parts P.C BOARD ASSEMBLIES

### Power $\mu$ COM Assembly (AWZ1306) SEMICONDUCTORS

Mark Symbol & Description				SE	MIC	•	
		Symbol & Description	Part No.	Mar	k	Symbol & Description	Part No.
Æ	•	Power $\mu$ COM assembly	AWZ1306		**	IC101	
	⊚	GEQ E-VR assembly	AWZ1226		**	IC104	M5218P
	⊙	TAPE assembly	AWZ1230			IC201	M5218PF
		FL assembly	Non suppry	Δ	**		PD3081-A
		MIC headphone assembly	Non supply	Æ		IC3	STK4141-2S
			Non Supply		**	IC205, IC206	TA77808N
		Remote sensor assembly	Non supply		**	IC204	T0404000
		Tact SW assembly	Non supply		**	IC102	TC40198P
		DOLBY SW assembly	Non supply		**	IC103	TC40528P
		DOLBY B/C assembly	Non supply		**	IC202, IC203	TC40668P
		Fuse assembly	Non supply	A	**	IC2	TC9312N-048
			обруд	213	**	102	μРС78М05 Н
	IERS				**	Q206, Q257, Q258	RN2203
Mark		Symbol & Description	Part No.		**	Q12	2SA1515
Æ		T1 D		_	**	Q2, Q3, Q7, Q8, Q11, Q16,	
117	*	T1 Power transformer	ATS1058			Q22, Q108, Q203,	2SA933\$
٨		(AC220/240V)				Q208—Q210	
Æ	**	S1 Slide switch (POWER)	ASH-501		**	Q4, Q9, Q13, Q17—Q20,	0004740
Æ	**	FU1 Fuse (T1A/250V)	AEK-402		~ ~	Q23, Q201, Q202, Q204,	2SC1740S
Æ	**	FU2 Fuse (T2A/250V)	AEK-017			Q205, Q207, Q211,	
						Q251—Q254, Q259, Q260	
A	**	FU3 Fuse (T2.5A/250V)	AEK-403			d251—d254, d259, d260	
Æ		AC power cord (AC/250V)	ADG-041			021 0255 0050	
Æ		AC socket (AC OUTLETS)	AKP-502		**	Q21, Q255, Q256	2SD438
		Remote control unit	AXD1016		**	Q5, Q6, Q25	2SD836A
	**	REC/PB head (HADKH5515A)	AZP1011		**	Q10, Q212	2SD880
		,			**	Q14, Q15	2SJ103
	**	Push switch	AXN-035			D16 D00	
	**	Push switch	AZS1001	Æ	*	D16, D20	HZS9CIL
	**	Leaf switch (PLAY)	AXN-036	445	*	D5	RB152
	*	Solenoid	AZS1028		*	D15	RD13ESB3
					*	D209	RD3.3ESBI
	**	Motor assembly(Main)	AZX1010		*	D210	RD7.5ESB2
	**	<b>A.</b> .	AZX1009				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Æ	*	D6—D9, D212—D215,	S5566
						D251, D252	

	★ D10—D13, D17—D19,	1SS131		C210	CKCYF473Z50
	D21-D24, D26-D28,			C202, C265	
	D102, D201-D208, D211,				CKCYX473M25
	D220-D225			C109, C110	CQMA152K50
	5220			C41, C42	CQMA473K50
Æ	+ D4			C111, C112	CQMA562K50
41	* D4	4D4B44			
	<b>★</b> D29	HZS27-2L		C29, C30	CQMXA102J100
RELAY	Y		RESIST	ORS	
Mark	Symbol & Description	Part No.	NOTE: W	nen ordering resistors, conve	rt the resistance walks
	DV6		in	to code form, and then rewrite	the part no as before
*	★ RY2	ASR-111			the part no. as before.
		(ASR1005)	Mark	Symbol & Description	Part No.
<b>∆</b> ★	★ RY1	ASR-516		3,333	Fait No.
			Æ	R26, R90	RD1/2PMFD 🗆 🗆 J
COILS	& TRANSFORMER			R1—R4	RD1/2PM□□□J
Mark	Symbol & Description	Part No.	Æ	R63, R64, R66—R70	RD1/4PMFLO D DJ
		1 411 110.	· <u>A</u>	R25, R34, R71, R72, R113,	
	L1, L2 AF choke coil	ATH1004		R114	
Æ	★ T2 Power transformer	ATT1037		R10, R11, R42, R43,	PD1/APACCCC
				R59—R62, R65	RD1/4PM□□□J
CAPA	CITORS			11331102, 1105	
Mark	Symbol & Description	Part No.	A	R85	PC11MCC011
		. 410 140.	_ ▲	R15, R16	RS1LMF681J
A	C2 (0.01 µF/AC150V)	ACG1005	Ā		RS1LMF2R2J
Æ	C1 (0.01 µF/AC400V)	ACG1002	40	R8, R44, R239, R277, R278, R9	USSTMEN N N
$\triangle$	C8, C9 (5600µF/42V)	ACH-291			
	C206, C207	CCCCH330J50	*	VR253,VR254 Semi-fixed(10k)	VRTB6VS103
	C101, C102, C105, C106,	CCCSL101J50	*	VR251,VR252 Semi-fixed(22k)	
	C119, C120	00000101000		Other resistors	RD1/8PM□□□J
	0.10, 0.120		OTHERO		
	C25, C26	CCCSL221J50	OTHERS		
	C31, C32	CCCSL470J50	Mark	Symbol & Description	Part No.
	C39				
	C215, C257, C258	CEANP100M50		Jack 2P	AKB-093
	C201, C255, C256,	CEASO10M50		(SURROUND SPEAKERS)	
		CEAS100M25		Jack 6P	AKB-095
	C259—C262			(PHONO, CD, VIDEO)	
				Jack (REMOTE OUT)	AKN-207
	C253, C254	CEASOR1 M50		X201 Ceramic resonator	ASS-030
	C44 <sup>-</sup>	CEAS100M50		Terminal 4P	AKE-109
	C12, C20, C21, C23, C113,	CEAS101M10		(FRONT SPEAKERS)	
	C144, C121			,	
	C103, C104, C203	CEAS2R2M50	FL Asse	mbly	
				NDUCTORS	
	C107, C108, C213	CEAS220M16			
		•	Mark	Symbol & Description	Part No.
	C43	CEAS471M6	**	IC601, IC602	LC7570
	C17, C24, C47, C209, C211,	CEAS221M10	**	IC604	M5218PF
	C212, C214		**	IC605	
	C263, C264	CEAS221M16	**	Q620—Q622	μPD4001 BC
	C18, C19	CEAS222M16	**	Q625	2SC1740S
			~~	4025	DTC124ES
	C48	CEHAQ330M35		D624	4514667
Æ	C10	CEAS332M25	*		AEL1027
	C204		*	D626	AEL-429
	C13—C16	CEAS4R7M50	*	D625	AEL1032
	C37, C38	CEAS470M16	*	D627, D628	RD3.3ESB
	C37, C36	CEAS470M50	*		1SS131
	C11E C11C	057///00//05		D636	
	C115, C116	CEYA100M25	<b>0</b> 1440=		
	C33, C34	CEYANP330M25	SWITCHI	S	
	C35, C36	CEYA101M25	Mark	Symbol & Description	Part No.
	C117, C118	CEYA4R7M50			Tare 140.
	C27, C28	CEYA2R2M50	**	S633-S642, S644, S648	ASG-711
				Tact switch	
	C40	CEYA470M50		(TIME(+), TIME(-), START	
	C205	CKCYB222K50		TIME, STOP TIME, CLOCK	
	C22, C208	CKCYB471K50		ADJUST, SET/NEXT, TIMER	
	C251, C252	CKCYB822K50		PLAY, TIMER REC, TIMER	
	C3, C11	CKCYF103Z50		SOURCE, SUPER BASS,	
	,	-NO.1100200		POWER, STEREO WIDE,)	
3					

CAPACIT	ORS			C703, C704, C765	CKCYB392K50
Mark	Symbol & Description	Part No.		C709, C710 C705, C706, C715, C716	CKCYB682K50 CKCYX153M25
	2222 2224	CEJA010M50			CKCYX183M25
	C623, C624	CEJACTOMSO CEJA2R2M50		C756 C719, C720	CKCYX393M25
	C621, C622	CEJAZNZWIJO		C/19, C/20	CKC 1 X393 W125
ESISTO	RS			C746, C748, C750	CKCYX473M25
OTF.Wha	en ordering resistors, conver	t the resistance value		C701, C702	CKCYX563M25
	code form, and then rewrite			C762	CQMA823K50
ark	Symbol & Description	Part No.	RESISTO	RS	
*	VR621 Variable resistor (10k) (REC LEVEL)			en ordering resistors, conver o code form, and then rewrite	
	R631—R633 Other resistors	RD1/4PM 🗆 🗆 🗦 RD1/8PM 🗆 🗀 J	Mark	Symbol & Description	Part No.
THERS			*	VR701 Variable resistor	ACU1010
lark	Symbol & Description	Part No.		(GEQ, E-Volume) R759, R760, R795, R796,	RD1/4PM □ □ □J
+	V601 FL indicator	AAV1007		R711—R714, R739, R740	
-				Other resistors	RD1/8PM 🗆 🗆 🗆 J
	VR Assembly(AWZ122 NDUCTORS	<b>b</b> )		ssembly (AWZ1230) NDUCTORS	
lark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
**	IC701, IC702	BA3812L	**	IC315	M51143AL
**	IC706	CXD1120P	**	IC304, IC305, IC313, IC314	M5218L
**	IC704, IC708	M5218PF	**	IC308—IC312, IC316	M74LS05 P
**	IC707	M5220P	**	IC307	μPD4011BC
**	IC703, IC705	μPD4066BC	**	10307	(TC4011 BP)
			**	IC303, IC306	μPD4066BC
**	Q701, Q702, Q705, Q706	2SA933S			(TC4066BP)
** **	Q703, Q70 <u>4, Q7</u> 07	2SC1740S			,
**	Q709—Q711	2SC2240	**	IC301, IC302	M5220L
**	Q708	2SC2878	**	Q313, Q314	DTA124ES
*	D701	HZS6B1L	**	0329	DTC124ES
			**	Q344, Q345, Q361, Q362	2SA1115
*	D702, D703	2-1 K261	**	Q316, Q323, Q324, Q338,	2SA933S
CAPACIT	ORS			Q355	
/lark	Symbol & Description	Part No.	**	Q335—Q337, Q352—Q354	2SA970
	C713, C714	CEASR15M50	**	Q301-Q309, Q311, Q312,	2SC1740S
	C758, C761	CEASR13M50		Q315, Q317—Q322,	
		CEASR47M50		Q325-Q328, Q330, Q331,	
	C717, C718			Q339, Q346-Q349, Q356,	
	C759	CEASR68M50		Q363—365	
	C760	CEASOR1 M50	**	Q333, Q334, Q350, Q351	2SC2240
	C757	CEASO10M50			
	C731, C732, C771	CEAS100M25	**	Q342, Q343, Q359, Q360	2SC2603
	C723—C726, C747	CEAS101M10	**	Q340, Q341, Q357, Q358	2SD438
	C755	CEAS2R2M50	**	Q332, Q366	2 SJ1 03
	C729, C730	CEAS220M16	*	D301—D303, D305—D308	1 SS131
	C763, C764	CEAS221M10	COILS &	TRANSFORMERS	
	C741, C742, C749, C751,	CEAS470M10	Mark	Symbol & Description	Part No.
	C752, C745				AT14 627
	C743, C744	CEYA2R2M50		L309—L312 Trap coil	ATM-037
	U. 10/ U/ T	CEYA4R7M50		T301, T302	ATX1001
	C753 C754	UE I MITTIN ITIUU		Bias OSC transformer	
	C753, C754 C735, C736	CKCYR103K50			
	C753, C754 C735, C736	CKCYB103K50		L313, L314 Inductor	LTA102J
	C735, C736			L301, L302, L305, L306	LTA102J LTA392J -
	C735, C736 C769, C770	CEYA220M16		L301, L302, L305, L306 Inductor	LTA392J -
	C735, C736 C769, C770 C707, C708	CEYA220M16 CKCYB152K50		L301, L302, L305, L306 Inductor L303, L304, L307, L308	
	C735, C736 C769, C770	CEYA220M16		L301, L302, L305, L306 Inductor	LTA392J -

CA	PA	C	ITO	RI	22

Mark	Symbol & Description	Part No.
	C416, C428	ACE-133
	C307, C308, C325, C326,	CCCSL101J50
	C343, C344	
	C303, C304, C442, C443	CCCSL221J50
	C414, C415, C426, C427	CCCSL221 K500
	C301, C302	CCCSL271J50
	C404	CCCSL470J50
	C305, C306, C323, C324	CEANL100M16
	C337, C338, C355, C356,	CEASR47M50
	C359, C360	
	C406, C411	CEASOR1 M50
	C350, C423, C435	CEAS010M50
	C313, C314, C331, C332,	CEAS100M25
	C347, C348, C351, C352,	
	C375, C376, C399, C400	
	C309, C310, C327, C328	CEAS101M10
	C413, C425, C439, C440	CEAS2R2M50
	C441	CEAS220M16
	C319, C320, C335, C336	CEAS471 M6
	C405, C407—C410	CEAS3R3M50
	C345, C346	CEAS330M16
	C349, C361—C364	CEAS4R7M50
	C373, C374, C395, C396,	CEAS470M10
	C421, C422, C433, C434	
	C385, C386	CKCVB391 K50
	C321, C322, C341, C342,	CKCYB471 K50
	C377, C378, C397, C398	
	C412, C424, C426, C437	KCKYF103Z50
	C418, C419, C430, C431	CQMA103J50
	C417, C429	CQMA103K250
,	C379, C380	CQMA123J50
•	C391, C392, C420, C432	CQMA153J50
(	C311, C312, C329, C330,	CQMA183J50
(	C371, C372, C389, C390	
(	C367—C370, C383, C384	CQMA223J50
	C315, C316, C333, C334,	CQMA273J50
(	C365, C366, C381, C382	
	C387, C388, C393, C394	CQMA332J50
	C401, C402	CQMA473J50
	C317, C318	CQMA683J50
C	C353, C354, C357, C358	CQMA822J50

### RESISTORS

NOTE: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

Mark	Symbol & Description	Part No.
*	R478, R479, R507, R508 R331, R332, R518, R519 R450 VR309—VR312 (Semi-fixed) VR301—VR308 (Semi-fixed) Other resistors	RD1/2PM \( \bigcup \) \( \bigc

### MIC Headphone Assembly **SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
**	IC105	M5218PF
**	Q109, Q110	2SC1740S
*	D103, D104	1SS131

### CAPACITORS

Mark	Symbol & Description	Part No.
	C127	CCCSL101J50
	C125	CEANL101 M50
	C129	CEAS6R8M50
	C132	CEJA010M50
	C131	CEJA100M25
	C123	CEJA101 M10
	C130	CEJA220M16
	C124	CEJA470M10
	C128	CKCYB471 K50
	C126	CKCYB681 K50

### RESISTORS

NOTE: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

Mark	Symbol & Description	Part No.
A A	VR102 (Semi-fixed) 10k R86, R87 R179 Other resistors	ACS-012 RD1/2 PMF331 J RD1/4 PMF470 J RD1/8 PM 🗆 🗆 🖂 J

#### OTHERS

Mark	Symbol & Description	Part No.
	Jack (MIC) Jack (HEADPHONE)	AKN1004

### Remote Sensor Assembly **SEMIDONDUCTORS**

Mark	Symbol &	Description	Part No.
**	IC106 D105		CX20106A PD49P1

### **CAPACITORS**

Mark	Symbol & Description	Part No.
	C133	CEJA010M50
	C134	CEJA010M50
	C136	CEJA3R3M50
	C135	CKCYB331 K50

#### **RESISTORS**

IVIGIK	Symbol & Description	Part No.
	R195	RN1/4PQ2003F
	R194	RD1/8PM100J
	R196	RD1/8PM223J
OTHER	S	
Mark	Symbol & Description	Part No.
	Shield plate	ANK1021

ANK1021



Tact	SW	<b>Assembly</b>	,
<b>SEMI</b>	CON	DUCTORS	

Mark	Symbol & Description	Part No.
*	D601, D602, D604, D605	AEL1028
*	D603, D606, D607	AEL1029

### **SWITCHES**

Mark	Symbol & Description	Part No.
**	S601—S604, S606—S609, S611—S622 Tact switch (1-2 REW, 2-R.PLAY, 1-R. PLAY, 1-REW, 2-PAUSE, 2-1-STOP, 1-PAUSE, 2-FF, 2-F PALY, 1-F PLAY, 1-FF, NORMAL COPY, PARALLEL REC 2, REC MUTE, 2-REC, 1-REC, 1-REC MUTE, HI-SPEED COPY, PL/CD SYNC.	ASG-711

### RESISTORS

NOTE: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

Mark	Symbol & Description	Part No.
	All resistors	RD1/8PM□□□J

### **DOLBY SW Assembly** SEMICONDUCTORS

Mark	Symbol & Description	Part No.
*	D608 D609	AEL-460 AEL1003

SWITCHES				
Mark	Symbol & Description	Part No.		
**	S623—S630 Tact switch (BALANCE, (L), BALANCE (R) FUNCTION, G, E, REC, VOLUM (+), VOLUME(-), MUTING, RELAY PLAY/REC)			
**	S632 Slide switch (REV MODE)	ASH1011		
**	S631 Slide switch (DOLBY)	ASH1012		

#### RESISTORS

Mark	Symbol & Description	Part No.
	R608, R609 Other resistors	RD1/4PM 🗆 🗆 🗦 RD1/8PM 🗆 🗆 🗦

### DOLBY B/C Assembly **SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
**	IC541	CX20187

### FILTERS & COILS

Mark	Symbol & Description	Part No.
	F541, F542 DOLBY filter	ATF1014
	L543, L544 Inductor	ATH1017
	L541, L542 Inductor	ATH1018

### CAPACITORS

Mark	Symbol & Description	Part No.
	C535, C536	CCCSL221J50
	C517, C518	CEASR47M50
	C533, C543	CEAS100M25
	C501, C502	CEAS101 M10
	C509, C510	CEAS2R2M50
	C507, C508	CEYA100M16
	C505, C506	CEYA2R2M50
	C511, C512	CKCYB561 K50
	C503, C504	CKCYF223Z50
	C531, C532	CQMA103J50
	C521, C522	CQMA153J50
	C519, C520	CQMA154J50
	C523, C524	CQMA224J50
	C513, C514	CQMA302J50
	C515, C516	CQMA472J50
	C527, C528	CQMA473J50
	C529, C530	CQMA682J50
	C525, C526	CQMA683J50

### **RESISTORS**

NOTE: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

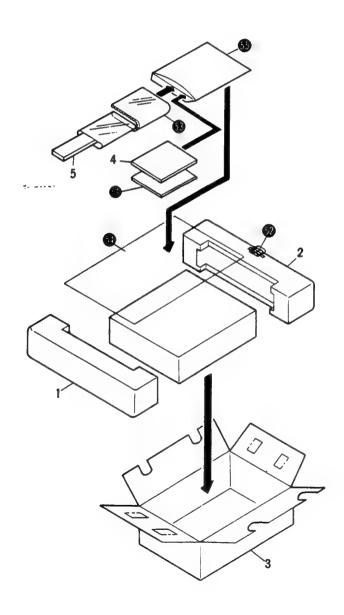
Mark	Symbol & Description	Part No.		
	All resistors RD1/8PN□ □			
Fuse A	Assembly CITOR			
Mark	Symbol & Description	Part No.		
	C138 (0.01µF/AC400V)	ACG1002		



### 5. PACKING

### Parts List

Mark	Mark No.	Part No.	Description
	1	AHA1038	Front pad
	2	AHA1039	Rear pad
	3	AHD1170	Packing case
	4	ARE1040	Operating instructions (English/German/French/ Italian)
	5	AXD1016	Remote control unit
	51		Warranty card
	52		Battery assembly
	53		Air cap
	54		Packing sheet
	55		Envelope





## 6. FOR HB AND SD TYPES

### CONTRAST OF MISCELLANEOUS PARTS

The DC-X99Z/HB and SD types are the same as the DC-X99Z/HE type with the exception of the following sections.

	_		Part No.			
Mark Symbol & Description		DC-X992			Remarks	
			HE type	HB type	SD type	, , , , , , , , , , , , , , , , , , ,
ý	Power µCOM Assemiby	AWZ1306	AWZ1306	AWZ1331		
7	Fuse Assembly	Non supply	Non supply			
7	AC power cord	ADG-041	ADG-051	Non supply		
7	Strain relief	AEC-882	AEC-882	ADG1015		
	AC socket (AC OUTLET)	AKP-502	AKP-505	AKP-515		
	MIC headphone assembly	Non supply	Non supply	Man august		
**	F1 Fuse (T1A/250V)	AEK-402	AEK-508	Non supply		
**	F1 Fuse (T1.6A/250V)		1			
**	F2 Fuse (T2A/250V)	AEK-017	AEK-511	AEK-405		
**	F3 Fuse (T2.5A/250V)	AEK-403	1	AEK-017		
	(1-10) (-00)	AEK-403	AEK-512			
**	F3 Fuse (T1.6A/250V)					
*	T1 Power transformer	4704000		AEK-405		
_	(AC220/240V)	ATS1058	ATS1058			
*	T1 Power transformer		1			
*				ATS1057		
**	(AC110/120-127/220/240V)		1			
**	S2 Voltage selector			AKX-507		
44	(AC110/120-127/220/240V)			7		
**	S3 Voltage selector			AKX1007		
-	(AC110/120-127/220/240V)			AKX1007		
	Screw			V8Z30P100FMC		
	Cushion rubber			AEB1003		
i	Operating instructions	ARE1040				
	(English, German, French, Italian)		4 4 4 4 4			
	Operating instructions		ARB1049	ARB1055		
	(English)					
1	Operating instructions			ARC1030		
	(Spanish-auxiliary)	ļ				
1	Rear panel	Non supply	Non supply	Non supply		
- 1	Heat sink		······································			
	Heat-sink holder		- i	Non supply		
			*****	Non supply		

### POWER $\mu$ COM ASSEMBLY (AWZ1331)

The power  $\mu$ COM assembly (AWZ1331) is the same as the power  $\mu$ COM assembly (AWZ1306) with the exception of the following sections.

A. a. a. da		Part No.			
Mark Symbol & Description		AWZ1306 HE/HB types		Remarks	
A ** A A **	IC3 R90 R55, R56 R85 C8, C9 T2 RY2	STK4141-2S RD1/2PMF4R7J RD1/8PM102J RS2LMF471J ACH-291 ATT1037 ASR-111 (ASR1005)	SD type  STK4191-5S RD/1/2PMF100J RD1/8PM911J RS2LMF911J ACH-258 ATT1036 ASR-109 (ASR-112) CCCSL010C50		



#### **FUSE ASSEMBLY**

The fuse assembly for SD type is the same as the fuse assembly for HE/HB types with the exception of the following sections.

Mark	Symbol & Description			
		HE/HB types	SD type	Remarks
	Terminal	Non supply		

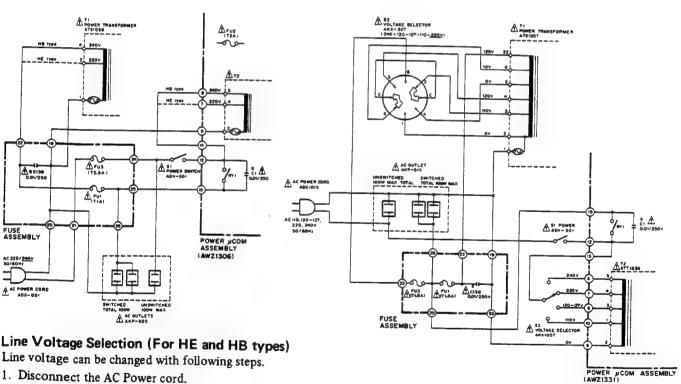
### MIC HEADPHONE ASSEMLBLY

The MIC headphone assembly for SD type is the same as the MIC headphone assembly for HE/HB types with the exception of the following sections.

	No.	Symbol & Description Part No.		Mark
Remarks	SD type	HE/HB types		
	RD1/2PMF681J	RD1/2PMF331J	R86, R87 R88, R89	<b>∆</b> . <b>∆</b> .
	RD1/2 PMF681 J RD1/2 PMF681 J	RD1/2PMF331J	R86, R87 R88, R89	Δ.

### Schematic Diagram of HB type

### Schematic Diagram of SD type



- 2. Remove the Bonnet case.
- 3. Change the connection of the primary lead wires. (Connect as shown in Fig. above (left).)
- 4. Stick the line voltage label on the rear panel.

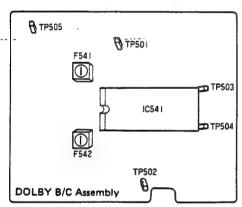
Description	Part No.
220V label	AAX-193
240V label	AAX-192



### 7. ADJUSTMENTS

### 7.1 MECHANICAL SECTION ADJUSTMENT

Mode	Test tape	Adjusting points	Specifications/Ratings (playback frequency)	
	Play back 3kHz section of STD-301 (DECK-I)	VR253 (double speed) VR251 (normal speed)	Adjust so that it becomes 6030Hz. (Short-circuit TP27 and TP29 after playback.) Adjust so that it becomes 3015Hz. (Press the PLAY switch.)	
PLAY	Play back 3kHz section of STD-301 (DECK-II)	VR254 (double speed) VR252 (normal speed)	Adjust so that it becomes 6030Hz. (Short-circuit TP28 and TP29 after playback.) Adjust so that it becomes 3015Hz. (Press the PLAY switch.)	
. Tape path	adjustment			
Mode	Adjusting po	ints	Specifications	
FWD REV	The dame of objective to serve		Playback 10kHz, -20dB with STD-331 test tape. Adjust so that the signal output at test points of TP501 and TP502 becomes maximum.	
Load the casse	tte, then lift the head base with	your hand so that ta	pe contacts the tape guide.	
STOP	Height adjustment screws	(left and right)	Visually check whether tape is on tape guide center.	
FWD PLAY	FWD height adjustn	nent screw		
REV PLAY	REV height adjustment screw		Adjust primary tape guide so that tape is not curled.	



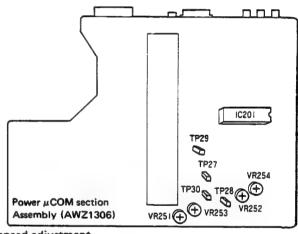


Fig. 7-1 Tape speed adjustment

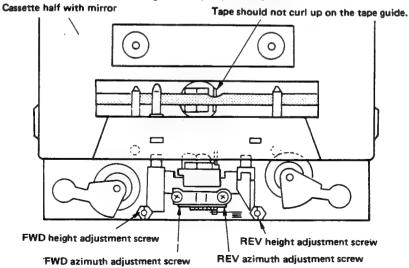


Fig. 7-2 Tape path adjustment

### 7.2 ELECTRICAL ADJUSTMENT

#### **Adjustment Conditions**

- Mechanism section adjustment should have been completed first.
- 2. Heads should be cleaned and demagnetized.
- 3. Aging of deck should be performed for at least 2-3 minutes before starting electrical adjustment.
- 4. Reference signal should be set to 0dB=1Vrms.
- 5. The following switch setting should not be changed, unless otherwise indicated:

DOLBY NR: OFF

#### **Test Tapes**

STD-331B: Playback adjustment (See Fig. 7-3.)

STD-608A: Blank normal tape STD-620: Blank chrome tape STD-610: Blank metal tape

#### Deck I

- 1. Head angle adjustment
- 2. Playback level adjustment
- Recording/playback frequency characteristics adjustment
- 4. Recording level adjustment

#### Deck II

- 1. Head angle adjustment
- 2. Playback level adjustment
- Recording/playback frequency characteristics adjustment
- 4. Recording level adjustment

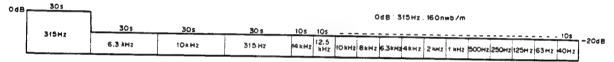


Fig. 7-3 STD-331B test tape

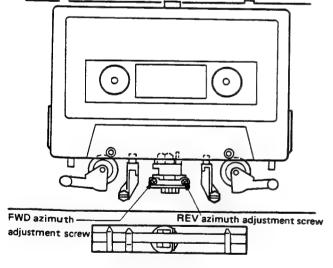


Fig. 7-4 Head azimuth adjustment

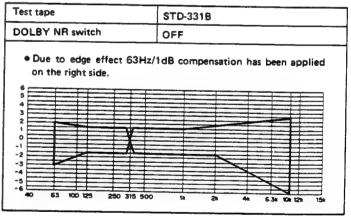


Fig. 7-5 Playback frequency-response allowance rance

• Deck I a		<del></del>		tes auto tape selecto			
1. Head angl	e adjustment	• Turn VR301 an	d V	R302 (playback leve	l adjustment VRs) fu	illy clockwise (MAX.	position).
Tape selector	Mode	Input signal/test tape		Adjusting point	Measuring points	Adjusting value	Remarks
NORM	PLAY	Play back 10kHz, -20dB with STD-331B test tape		Head angle adjust- ment screw (Fig. 7-4)	TP501 (L) TP502(R)	Maximum play- back signal level	Lock screw afte completion of adjustment.
2. Playback I	evel adjustm	ent • This adjustment	is s	et Dolby level during	playback, so the ad	justment should be p	
Tape selector	Mode	Input signal/test tape	Т	Adjusting point	Measuring points	Adjusting value	Remarks
NORM	PLAY	Play back 315Hz, 0dB with test tape STD-331B		VR301 (L) VR302(R)	TP501 (L) TP502(R)	-10.2dBV (309mV)	
		equency characteristics					
This adjus	tment is set to	recording bias, so care sho	uld	be taken to avoid dis	stortion factor deteri	oration due to under	-bias operation.
Tape selector	Mode	Input signal/test tape		Adjusting point	Measuring points	Adjusting value	Remarks
NORM	REC	Input 315Hz signal to VIDEO terminal.	1	Input signal level	TP501 (L) TP502(R)	-30.2dBV (31mV)	Set recording level VR to center position.
NORM	REC/PLAY	Record and play back 315Hz, 10kHz with STD-608A test tape	2	VR309 (L) VR310(R)	TP501 (L) TP502(R)	Record and play be making corrections 0±0.5dB 10kHz pla the recorded 315H	so as to obtain a hyback level of
		R switch, and frequency cha	ract	teristics zone shown	in Fig. 7-7 should be	satisfied.	
4. Recording	level adjustr	ment					
Tape selector	Mode	Input signal/test tape		Adjusting point	Measuring points	Adjusting value	Remarks
NORM	REC	Input 315Hz signal to VIDEO terminal	1	Input signal level	TP501 (L) TP502(R)	-10.2dBV (309mV)	
NORM	REC/PLAY	Perform recording and playback of 315Hz to STD-608A test tape	2	VR305(L) VR306(R)	TP501 (L) TP502(R)	Record and playback repeatedly, making corrections so that playback level of the 315Hz signal is -10.2dB\ (309mV).	
METAL	REC/PLAY	Perform recording and playback of 315Hz to STD-610 test tape	3		TP501 (L) TP502(R)	Confirm that playback level of the 315Hz signal is -10.2dBV±2dB.	
Deck II a	djustment	This unit incorp.	orat	es auto tape selector			
1. Head angle	adjustment	• Turn VR303 and	ı VI	R304 (playback level	adjustment VRs) fu	lly colockwise (MAX	. position).
Tape selector	Mode	Input signal/test tape		Adjusting points	Measuring points	Adjustment value	Remarks
NORM	PLAY	Playback 10kHz, -20dB with STD-331B test tape		Head angle adjust- ment screw (Fig. 7-4)	TP501 (L) TP502(R)	Maximum play- back signal level	Lock sciew after completion of adjustment
2. Playback le			sets			e performed careful	
Tape selector	Mode	Input signal/test tape		Adjusting points		Adjustment value	Renarks
NORM	PLAY	Playback 315Hz, 0dB with STD-331B test tape		VR303 (L) VR304(R)	TP501 (L) TP502(R)	-10.2dBV (309mV)	
		equency characteristics a					
		recording bias, so care shou	)Id				
Tape selector	Mode	Input signal/test tape		Adjusting points	Measuring points	Adjustment value	Renarks
NORM	REC	Input 315Hz signal to VIDEO terminal	1	input signal level	TP501 (L) TP502(R)	-30.2dBV (31mV)	Set recording level VR to center position.
NORM	REC/PLAY	Record (315Hz) and playback 315Hz, 10kHz to STD-608A test tape	2	VR311 (L) VR312(R)	TP501 (L) TP502(R)	Record and playbac making corrections 0±0.5dB 10kHz pla the recorded 315Hz	so as to obtain yback level of

4. Recording level adjustment								
Tape selector	Mode	Input signal/test tape		Adjusting points	Measuring points	Adjustment value	Remarks	
NORM	REC	Input 315Hz signal to VIDEO terminal	1	Input signal level	TP501 (L) TP502(R)	-10.2dBV (309mV)		
NORM	REC/PLAY	Perform recording and playback of 315Hz of STD-608A test tape	2	VR307(L) VR308(R)	TP501 (L) TP502(R)	Record and playback making corrections s back of 315Hz signal (309mV).	o that the play-	
METAL	REC/PLAY	Perform recording and playback of 315Hz to STD-610 test tape	3		TP501 (L) TP502(L)	Confirm that playback level of 315Hz signal is -10.2dBV±2d		

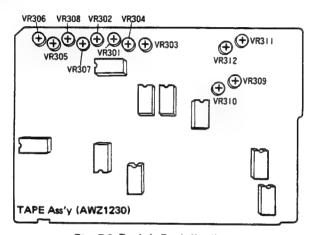
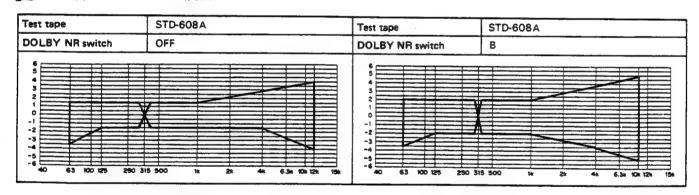


Fig. 7-6 Deck I, Deck II adjustment



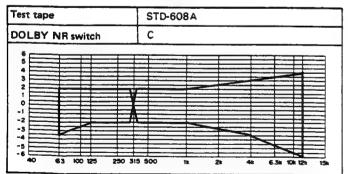
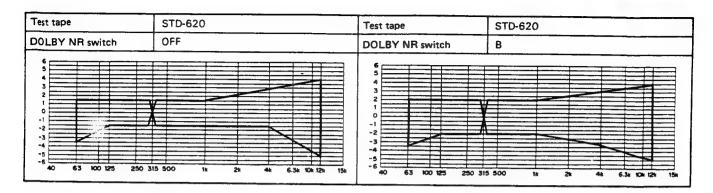


Fig. 7-7-1 Recording/Playback frequency-response allowance range (NORM)



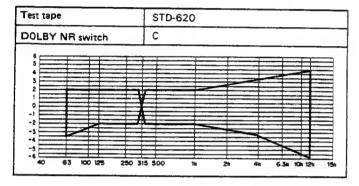
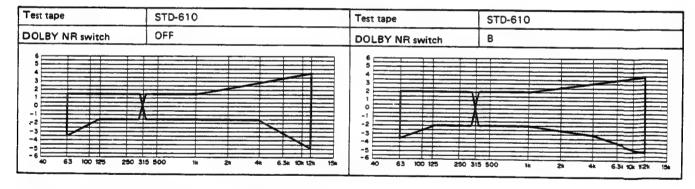


Fig. 7-7-2 Recording/Playback frequency-response allowance range (CrO<sub>2</sub>)



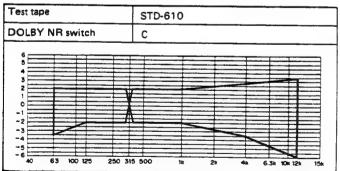


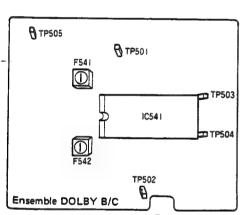
Fig. 7-7-3 Recording/Playback frequency-response allowance range (METAL)



# 7. RÉGLAGE

### 7. 1 PROCEDURES DE RÉGLAGE

Mode	Bande test	Points de réglage	Spécifications/valeurs (fréquence de lecture)			
	Section 3 kHz de la bande	VR253 (vitesse double)	Régler sur 6030 Hz (court-circuiter TP27 et TP29 après la lecture)			
PLAY	STD-301 (Platine I)	VR251 (vitesse normale)	Régler sur 3015 Hz (appuyer sur la touche PLAY)			
	Section 3 kHz de la bande	VR254 (vitesse double)	Régler sur 6030 Hz (court-circuiter TP28 et TP29 après la lecture)			
	STD-301 (Platine II)	VR252 (vitesse normale)	Régler sur 3015 Hz (appuyer sur la touche PLAY)			
<ol><li>Réglage du</li></ol>	parcours de la bande					
Mode	Points de rég	lage	Spécifications			
FWD	Vis de réglage de l'azimuth lo	rs de l'avance rapide	Lecture d'une tonalité de 10 kHz à -20 dB en utilisant la bande test STD-331.			
REV	Vis de réglage de l'azimuth l	ors du rebobinage	Régler pour obtenir un niveau de sortie maximum sur les points test TP501 et TP502.			
Mettre en plac bande.	e une cassette, soulever ensuite	la bass de la tête avec	le doigt de manière à ce que la bande entre en contact avec le guide de			
STOP	Vis de réglage de hauteur	(gauche et droit)	Vérifier visuellement que la bande se trouve au centre du guide de bande.			
FWD PLAY	Vis de réglage de la hauteur lo	rs de l'avance rapide	Régler le guide bande primaire de manière à ce que la banda d'autille			
			Régler le guide bande primaire de manière à ce que la bande n'ondule pas.			



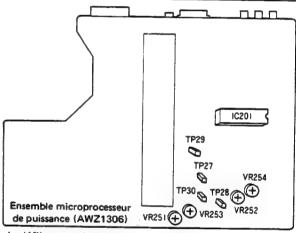


Fig. 7-1 Réglage de la vitesse de défilement de la bande

Demi-cassette avec miroir

La bande ne doit pas onduler sur le guide de bande.

Vis de réglage de la hauteur lors de l'avance rapide

Vis de réglage de la hauteur lors du rebobinage

Vis de réglage de l'azimuth lors de l'avance rapide

Vis de réglage de l'azimuth lors du rebobinage

Fig. 7-2 Réglage du parcours de la bande



### 7.2 RÉGLAGES ELECTRIQUES

### Conditions de réglage

- 1. Effectuer en premier lieu les réglages méchaniques.
- 2. Les têtes doivent être propres et démagnétisées.
- 3. La platine doit être sous tension depuis 2 à 3 minutes minimum avant de commencer les réglages électriques.
- 4. Il faut utiliser un signal de référence de 0 dB, 1V off.
- 5. Ne pas modifier la position du commutateur suivant, sauf mention contraire:

DOLBY NR: sur la position OFF

### Bandes test

STD-331B: Réglage de la lecture (se reporter à la Fig. 7-3)

STD-608A: Bande vierge de type normal STD-620: Bande vierge de type chrome STD-610: Bande vierge de type métal

### Platine I

- 1. Réglage de l'inclinaison de la tête
- 2. Réglage du niveau de lecture
- 3. Réglage de la fréquence d'enregistrement/lecture
- 4. Réglage du niveau d'enregistrement

#### Platine II

- 1. Réglage de l'inclinaison de la tête
- 2. Réglage du niveau de lecture
- 3. Réglage de la fréquence d'enregistrement/lecture
- 4. Réglage du niveau d'enregistrement

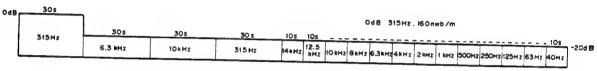
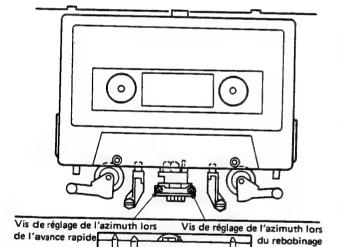


Fig. 7-3 Bande test STD-331B



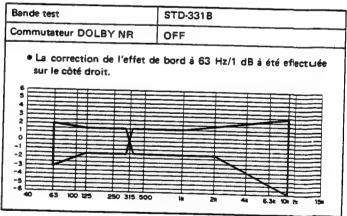


Fig. 7-5 Tolérance de la réponse en fréquence lors de lalec ture

Fig. 7-4 Réglage de l'azimuth de la tête



<ul> <li>Réglage</li> </ul>	ac ia biali			LIIDP O'LIN SPIACTALLE S			
1. Réglage d				dipe d'un serecteur a	utomatique de type (	de bande.	
		02 (résistances variables de	régi	age du niveau de lect	cure) à fond dans le se	ens des aiguilles d'un	e monte (position
Sélecteur de type de bande	Mode	Signal d'entrée/ bande test		Points de réglage	Points de mesure	Valeur de réglage	Remarques
NORM	PLAY	10 kHz, -20 dB (lecture)/STD-331B		Vis de réglage de l'inclinaison de la tête (Fig. 7-4)	TP501 (L) TP502(R)	Niveau maximu du signal de lecture	Bloquer la vis après réglage.
2. Réglage d					<u> </u>		
Sélecteur de	e agit sur le ni	veau de lecture Dolby et do	oit d	onc être effectué ave	c soin.		
type de bande	Mode	Signal d'entrée/ bande test	_	Points de réglage	Points de mesure	Valeur de réglage	Remarques
NORM	PLAY	315 kHz, 0 dB (lec- ture)/STD-331B		VR301 (L) VR302(R)	TP501 (L) TP502(R)	-10,2dBV (309mV)	
3. Réglage d	e la fréquenc	e d'enregistrement/lect	ure				
<ul> <li>Ce réglage functions</li> </ul>	e agit sur la po	larisation pour enregistrem plarisation trop faible.	ent	et doit donc être effe	ectué avec soin pour (	éviter la distorsion p	rovoquée lors du
Sélecteur de type de bande	Mode	Signal d'entrée/ bande test		Points de réglage	Points de mesure	Valeur de réglage	Remarques
NORM	REC	315 kHz sur la prise VIDEO	1	Niveau du signal d'entrée	TP501 (L) TP502(R)	-30,2dBV (31mV)	Placer la résistan- ce ajustable de ré- glage du niveau d' enregistrement en position médiane.
None		315 Hz (enregistrement)		VR309 (L)	TP501 (L)	Enregistrer et effect façon répétée, en f	tuer la lecture de aisant de corections
NORM	REC/PLAY	et 10 kHz (lecture)/ STD-608A	2	VR310(R)	TP502(R)	rrespondant au sigr	0,5 dB à 10 kHz co- nai de 315 Hz
• Les courbes d NR.	le fréquence de	STD-608A e la Fig. 7-7 doivent être at		VR310(R)	TP502(R)	lecture soit de 0 ± 1 rrespondant au sign	0,5 dB à 10 kHz co- nai de 315 Hz
• Les courbes d NR. 4. Réglage du	le fréquence de	STD-608A e la Fig. 7-7 doivent être at registrement		VR310(R)	TP502(R)	lecture soit de 0 ± 1 rrespondant au sign	0,5 dB à 10 kHz co- nai de 315 Hz
Les courbes of NR.  Réglage du Sélecteur de type de bande	e fréquence de niveau d'en Mode	e la Fig. 7-7 doivent être at registrement Signal d'entrés/ bande test		VR310(R) tes pour chaque com Points de réglage	TP502(R) binaison de bande ter Points de mesure	lecture soit de 0 ± 1 rrespondant au sign	0,5 dB à 10 kHz co- nai de 315 Hz
Les courbes d NR.  4. Réglage du Sélecteur de	le fréquence de	e la Fig. 7-7 doivent être at registrement Signal d'entrés/		VR310(R)	TP502(R) binaison de bande te	lecture soit de 0 ± rrespondant au sigrenregistré. st/position du comm  Valeur de réglage  -10,2dBV (309mV)	0,5 dB à 10 kHz co- nai de 315 Hz utateur DOLBY Remarques
Les courbes of NR.  Réglage du Sélecteur de type de bande	e fréquence de niveau d'en Mode	std-608A  a la Fig. 7-7 doivent être at registrement  Signal d'entrés/ bande test  315 kHz sur la prise	tein	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal	Points de mesure	lecture soit de 0 ± rrespondant au sigr enregistré. st/position du comm  Valeur de réglage -10,2dBV (309mV)  Enregistrer et effec façon répétée, en ei	0,5 dB à 10 kHz co- nai de 315 Hz  utateur DOLBY  Remarques  tuer la lecture de ffectuant des co- e à ce que le niveau 10.2dBV (309mV)
Les courbes of NR.  4. Réglage du Sélecteur de type de bande NORM	e fréquence de niveau d'en Mode	std-608A  e la Fig. 7-7 doivent être at registrement  Signal d'entrés/ bande test  315 kHz sur la prise VIDEO  315 Hz (enregistrement	tein	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal d'entrée  VR305(L)	Points de mesure TP502(R)  Points de mesure TP501 (L) TP502(R)	lecture soit de 0 ± rrespondant au sigrenregistré.  st/position du comm  Valeur de réglage  -10,2dBV (309mV)  Enregistrer et effectaçon répétée, en el rrections de manièr de lecture soit de pour le signal 315 h  Vérifier que le nives signal de 315 Hz est	0,5 dB à 10 kHz co- nal de 315 Hz  utateur DOLBY  Remarques  tuer la lecture de ffectuant des co- e à ce que le niveau 10,2dBV (309mV) dz.
Les courbes on NR.  4. Réglage du Sélecteur de type de bande NORM  NORM  METAL	e fréquence de la niveau d'en Mode REC	STD-608A  e la Fig. 7-7 doivent être at registrement  Signal d'entrés/ bande test  315 kHz sur la prise VIDEO  315 Hz (enregistrement & lecture)/STD-608A	tein	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal d'entrée  VR305(L)  VR306(R)	Points de mesure TP501 (L) TP502(R)  TP501 (L) TP502(R)  TP501 (L) TP502(R)	lecture soit de 0 ± rrespondant au sigrenregistré.  st/position du comm  Valeur de réglage  -10,2dBV (309mV)  Enregistrer et effectaçon répétée, en eirrections de manièr de lecture soit de -pour le signal 315 H  Vérifier que le niver signal de 315 Hz est b 2 dB.	0,5 dB à 10 kHz co- nal de 315 Hz  utateur DOLBY  Remarques  tuer la lecture de ffectuant des co- e à ce que le niveau 10,2dBV (309mV) dz.
• Les courbes de NR.  4. Réglage du Sélecteur de type de bande NORM  NORM  METAL  • Réglage de La Ré	e fréquence de la niveau d'en Mode REC REC/PLAY REC/PLAY	STD-608A  e la Fig. 7-7 doivent être at registrement  Signal d'entrés/ bande test  315 kHz sur la prise VIDEO  315 Hz (enregistrement & lecture)/STD-608A  315 Hz (enregistrement & lecture)/STD610  e ii • Cet appareil est de	tein 1 2	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal d'entrée  VR305 (L) VR306(R)	Points de mesure TP501 (L) TP502(R)  TP501 (L) TP502(R)  TP501 (L) TP502(R)  TP502(R)	lecture soit de 0 ± rrespondant au sigrenregistré.  st/position du comm  Valeur de réglage  -10,2dBV (309mV)  Enregistrer et effectaçon répétée, en et rrections de manièr de lecture soit de pour le signal 315 H  Vérifier que le niver signal de 315 Hz est b 2 dB.	O,5 dB à 10 kHz conal de 315 Hz  Putateur DOLBY  Remarques  tuer la lecture de ffectuant des cone à ce que le niveau 10,2dBV (309mV) Hz.  au de lecture du t de -10,2 dBV
• Les courbes de NR.  4. Réglage du Sélecteur de type de bande NORM  NORM  METAL  • Réglage de La Ré	e fréquence de la niveau d'en Mode REC REC/PLAY REC/PLAY	STD-608A  e la Fig. 7-7 doivent être at legistrement  Signal d'entrés/ bande test  315 kHz sur la prise VIDEO  315 Hz (enregistrement & lecture)/STD-608A  315 Hz (enregistrement & lecture)/STD610  e ii • Cet appareil est en de la tête	tein 1 2	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal d'entrée  VR305 (L) VR306(R)	Points de mesure TP501 (L) TP502(R)  TP501 (L) TP502(R)  TP501 (L) TP502(R)  TP502(R)	lecture soit de 0 ± rrespondant au sigrenregistré.  st/position du comm  Valeur de réglage  -10,2dBV (309mV)  Enregistrer et effectaçon répétée, en et rrections de manièr de lecture soit de pour le signal 315 H  Vérifier que le niver signal de 315 Hz est b 2 dB.	O,5 dB à 10 kHz conal de 315 Hz  Putateur DOLBY  Remarques  tuer la lecture de ffectuant des cone à ce que le niveau 10,2dBV (309mV) Hz.  au de lecture du t de -10,2 dBV
• Les courbes de NR.  4. Réglage de Sélecteur de type de bande NORM  NORM  METAL  Réglage de • Tourner V MAX.).  Sélecteur de	REC/PLAY  REC/PLAY  REC/PLAY  I'inclinaison R303 et VR30	STD-608A  e la Fig. 7-7 doivent être at legistrement  Signal d'entrés/ bande test  315 kHz sur la prise VIDEO  315 Hz (enregistrement & lecture)/STD-608A  315 Hz (enregistrement & lecture)/STD610  e ii • Cet appareil est de la tête  4 (résistances variables de lecturé)/SID610	tein 1 2	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal d'entrée  VR305(L)  VR306(R)  pé d'un sélecteur aut  age du niveau de leot  Points de réglage  Vis de réglage de l'inclinaison de la	Points de mesure  Points de mesure  TP501 (L) TP502(R)  TP501 (L) TP502(R)  TP501 (L) TP502(R)  comatique de type de ure) à fond dans le se	lecture soit de 0 ± rrespondant au sigrenregistré.  st/position du comm  Valeur de réglage  -10,2dBV (309mV)  Enregistrer et effectaçon répétée, en et rrections de manièr de lecture soit de pour le signal 315 h  Vérifier que le niver signal de 315 Hz est b 2 dB.  bande.  ens des aiguilles d'une  Valeur de réglage  Niveau maximu du signal de	O,5 dB à 10 kHz conal de 315 Hz  utateur DOLBY  Remarques  tuer la lecture de ffectuant des cone à ce que le niveau 10,2dBV (309mV) dz.  au de lecture du t de -10,2 dBV
• Les courbes de NR.  4. Réglage du Sélecteur de type de bande  NORM  NORM  METAL  Préglage de • Tourner V MAX.).  Sélecteur de type de bande  NORM  NORM  Réglage de • Tourner V MAX.	REC/PLAY  REC/PLAY	std-608A  a la Fig. 7-7 doivent être at la Fig. 7-7 doiven	1 2 3 séqui	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal d'entrée  VR305 (L) VR306(R)  pé d'un sélecteur aut  age du niveau de leot  Points de réglage  Vis de réglage de l'inclinaison de la tête (Fig. 7-4)	Points de mesure  Points de mesure  TP501 (L) TP502(R)	lecture soit de 0 ± rrespondant au sigrenregistré. st/position du comm  Valeur de réglage  -10,2dBV (309mV)  Enregistrer et effec façon répétée, en et rrections de manièr de lecture soit de pour le signal 315 Hz est b 2 dB.  bande.  Pens des aiguilles d'une Valeur de réglage  Niveau maximu	O,5 dB à 10 kHz conal de 315 Hz  Intrateur DOLBY  Remarques  tuer la lecture de ffectuant des cone à ce que le niveau 10,2dBV (309mV) dz.  au de lecture du t de -10,2 dBV  e montre (position  Remarques  Bloquer la vis
• Les courbes de NR.  4. Réglage du Sélecteur de type de bande  NORM  NORM  METAL  Préglage de • Tourner V MAX.).  Sélecteur de type de bande  NORM  NORM  Réglage de • Tourner V MAX.	REC/PLAY  REC/PLAY	std-608A  a la Fig. 7-7 doivent être at la Fig. 7-7 doiven	1 2 3 séqui	VR310(R)  tes pour chaque com  Points de réglage  Niveau du signal d'entrée  VR305 (L) VR306(R)  pé d'un sélecteur aut  age du niveau de leot  Points de réglage  Vis de réglage de l'inclinaison de la tête (Fig. 7-4)	Points de mesure  Points de mesure  TP501 (L) TP502(R)	lecture soit de 0 ± rrespondant au sigrenregistré.  st/position du comm  Valeur de réglage  -10,2dBV (309mV)  Enregistrer et effectaçon répétée, en et rrections de manièr de lecture soit de pour le signal 315 h  Vérifier que le niver signal de 315 Hz est b 2 dB.  bande.  ens des aiguilles d'une  Valeur de réglage  Niveau maximu du signal de	O,5 dB à 10 kHz conal de 315 Hz  Intrateur DOLBY  Remarques  tuer la lecture de ffectuant des cone à ce que le niveau 10,2dBV (309mV) dz.  au de lecture du t de -10,2 dBV  e montre (position  Remarques  Bloquer la vis

### 3. Réglage de la fréquence d'enregistrement/lecture

 Ce réglage agit sur la polarisation pour enregistrement et doit donc être effectué avec soin pour éviter la distorsion provoquée lors du fonctionnement avec polarisation trop faible.

Sélecteur de type de bande	Mode	Signal d'entrée/ bande test		Points de réglage	Points de mesure	Valeur de réglage	Remarques
NORM	REC	315 kHz sur la prise VIDEO	1	Niveau du signal d'entrée	TP501 (L) TP502(R)	-30,2dBV (31mV)	Placer la résistan- ce ajustable de ré- glage du niveau d'enregistrement en position mé- diane.
NORM	REC/PLAY	315 Hz (enregistrement) et 10 kHz (lecture)/ STD-608A	2	VR311 (L) VR312(R)	TP501 (L) TP502(R)	Enregistrer et effec façon répétée, en fa tions de manière à lecture soit de 0 ± ( rrespondant au sign gistré.	aisant des correc- ce que le niveau de 0,5 dB à 10 kHz co-

 Les courbes de fréquence de la Fig. 7-7 doivent être atteintes pour chaque combinaison de bande test/position du commutateur DOLBY NR.

4. Réglage du niveau d'enregistrement

Sélecteur de type de bande	Mode	Signal d'entrée/ bande test		Points de réglage	Points de mesure	Valeur de réglage	Remarques
NORM	REC	315 kHz sur la prise VIDEO	1	Niveau de signal d'entrée	TP501 (L) TP502(R)	-10,2dBV (309mV)	
NORM	REC/PLAY	315 Hz (enregistrement & lecture)/STD-608A	2	VR307 (L) VR308(R)	TP501 (L) TP502(R)	Enregistrer et effect façon répétée, en ef rrections de manière de lecture soit de -1 pour le signal 315 H	fectuant des co- : à ce que le niveau 0,2dBV (309mV)
METAL	REC/PLAY	315 Hz (enregistrement & lecture)/STD-610	3		TP501 (L) TP502(R)	Vérifier que le nivea signal de 315 Hz est ± 2 dB.	u de lecture du de -10,2 dBV

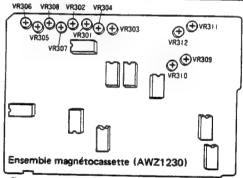


Fig. 7-6 Réglage de la platine I, platine II

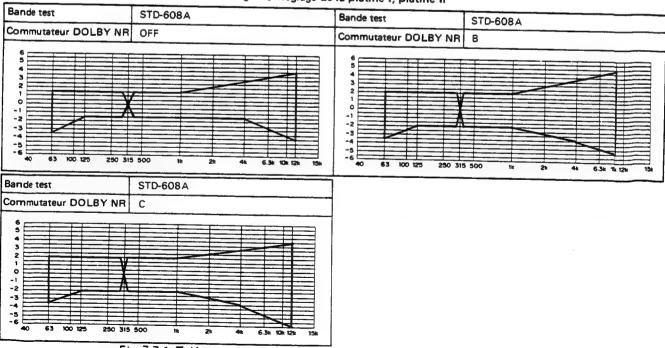
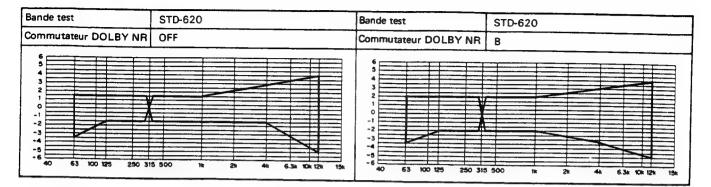


Fig. 7-7-1 Tolérance de la réponse en fréquence d'enregistrement/lecture (NORM)





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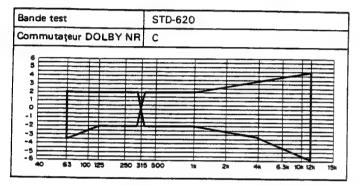
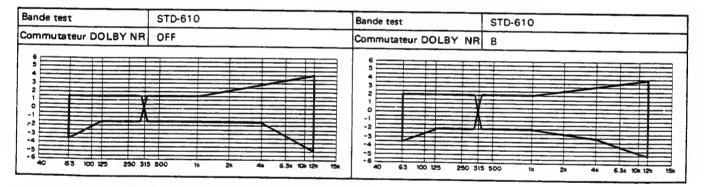


Fig. 7-7-2 Tolérance de la réponse en fréquence d'enregistrement/lecture (CrO<sub>2</sub>)



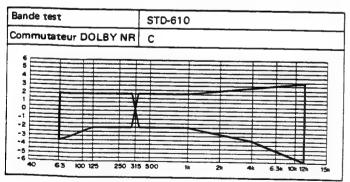
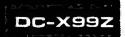


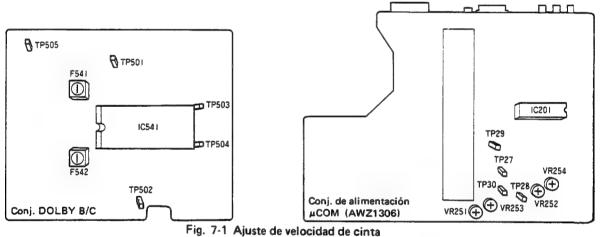
Fig. 7-7-3 Tolérance de la réponse en fréquence d'enregistrement/lecture (METAL)



### 7. AJUSTE

### 7.1 PROCEDIMIENTOS DE AJUSTE

Modo	Cinta de prueba	Puntos de ajuste	Especificaciones/Valores nominales (frecuencia de reproducción)				
		VR253 (velocidad doble)	Ajustar a 6030 Hz (cortocircuitar TP27 y TP29 después de la reproducción).				
STD-301 (platina I)		VR251 (velocidad normal)	Ajustar a 3015 Hz (presionar el interruptor PLAY)				
FUNT		VR254 (velocidad doble)	Ajustar a 6030 Hz (cortocircuitar TP28 y TP29 después de la reproducción).				
	STD-301 (platina II)		Ajustar a 3015 Hz (presionar el interruptor PLAY)				
2. Ajuste del	recorrido de la cinta						
Modo	Puntos de ajust	e	Especificaciones				
FWD	Tornillo de ajuste de azim	uth de FWD	Reproducción de 10kHz, -20dB con cinta de prueba STD-331.				
REV	Tornillo de ajuste de azim	uth de REV	Ajustar a máxima salida de señal en los puntos de prueba TP501 TP502.				
Insertar el cass	ette y levantar la base de cabeza c	on el dedo de modo	que la cinta toque la quía de cinta.				
STOP	Tornillos de ajuste de altura (izq	uierdo y derecho)	Verificar visualmente si la cinta está sobre la guía de cinta.				
FWD PLAY	Tornillo de ajuste de altu	ra de FWD	Almost to the state of the stat				
REV PLAY	Tornillo de ajuste de altu	ra de REV	Ajustar la guía primaria de modo que en la cinta no se forme rizo.				



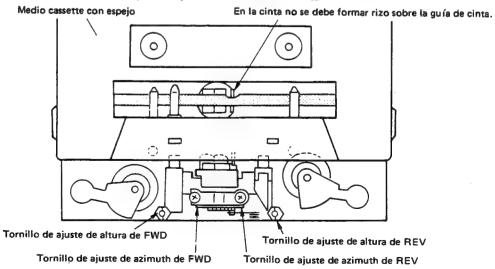


Fig. 7-2 Ajust del recorrido de la cinta

### 7. 2 AJUSTE ELECTRICO

#### Condiciones de ajuste

- 1. El ajuste del mecanismo debe finalizarse primero.
- 2. Las cabezas debe estar limpias y desmagnetizadas.
- 3. El magnetófono debe envejecerse por al menos 2-3 minutos antes de comenzar el ajuste eléctrico.
- Debe emplearse una señal de referencia de 0 dB, 1 Vrms.
- La siguiente posición de conmutador no debe cambiarse, excepto cuando se indique lo contrario: DOLBY NR: OFF

#### Cintas de prueba

STD-331B: Ajuste de reproducción (ver Fig. 7-3)

STD-608A: Cinta virgen normal STD-620: Cinta virgen de CrO<sub>2</sub> STD-610: Cinta virgen de metal

#### Magnetófono I

- 1. Ajuste del ángulo de cabeza
- 2. Ajuste del nivel de reproducción
- 3. Ajuste de característica de frecuencia de grabación/ reproducción
- 4. Ajuste de nivel de grabación

#### Magnetófono II

- 1. Ajuste del ángulo de cabeza
- 2. Ajuste del nivel de reproducción
- Ajuste de característica de frecuencia de grabación/ reproducción
- 4. Ajuste de nivel de grabación

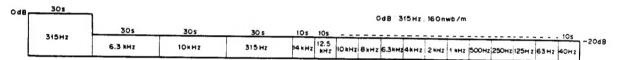
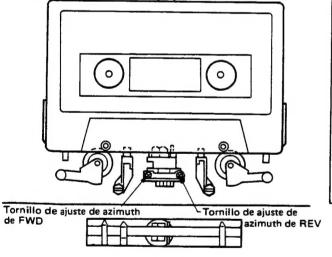


Fig. 7-3 Cinta de prueba STD-331B



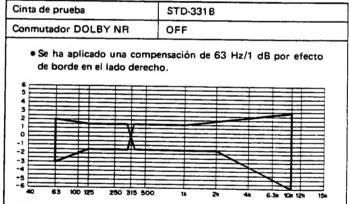


Fig. 7-5 Margen permisible de respuesta de reproducción

Fig. 7-4 Ajuste de azimuth de cabeza

<ul> <li>Aiuste de</li> </ul>	e la platina	Feta unidad está		uipada con selector au	tomático de cinta		
1. Ajuste del			Eq	Jipada Con selector ed	tomatico de cinta.	•	
• Girar VR3	•	(RVs do ajuste de nivel de r	epr	oducción) completamo		rario (posición MAX).	
Selector de cinta	Modo	Señal de entrada/ cinta de prueba		Puntos de ajuste	Puntos de medición	Valor de ajuste	Comentarios
NORM	PLAY	10kHz, -20dB (reproducción)/STD-331B		Tornillo de ajuste del ángulo de ca- beza (Fig. 7-4)	TP501 (L) TP502(R)	Máximo nivel de señal de repro- ducción	Fijar el tornillo después del ajuste.
2. Ajuste del		roducción nivel Dolby de reproducció		<u> </u>	- !		
Slector de cinta	Modo	Señal de entrada/ cinta de prueba	)n, ,	Puntos de ajuste	Puntos de medición	Valor de ajuste	Comentarios
NORM	PLAY	315Hz, 0dB (reproduc- ción)/STD-331B		VR301 (L) VR302(R)	TP501 (L) TP502(R)	-10,2dBV (309mV)	
		a de frecuencia de graba		n/reproducción			L
<ul> <li>Este ajuste ción insufi</li> </ul>	e determina la iciente.	polarización de grabación,	por	lo que debe cuidarse e	evitar el deterioro	del factor de distorsió	n debido a polariza
Selector de cinta	Modo	Señal de entrada/ cinta de prueba		Puntos de ajuste	Puntos de medición	Valor de ajuste	Comentarios
NORM	REC	Entrada de 315Hz la jack VIDEO,	1	Nivel de señal de entrada	TP501 (L) TP502(R)	-30,2dBV (31mV)	Colocar el RV de nivel de grabació en la posición central.
NORM	REC/PLAY	315Hz (grabación) y 10kHz (reproducción)/ STD-608A	2	VR309 (L) VR310(R)	TP501 (L) TP502(R)	Grabar y reproduci efectuando correcc nivel de reproducci a 0±0,5 dB de la se	iones hasta obtene ón de 10kHz igual ñal de 315 Hz.
<ul> <li>Las curvas de tador DOLBY</li> </ul>	respuesta de f	recuencia mostradas en Fig.	. 7-7	7 deben cumplirse para	a cada combinació	n de cinta de prueba/p	osición del conmu
4. Ajuste de r							
Selector de cinta	Modo	Señal de entrada/ Cinta de prueba		Puntos de ajuste	Puntos de medición	Valor de ajuste	Comentarios
NORM	REC	Entrada de 315Hz al jack VIDEO.	1	Nivel de señal de entrada	TP501 (L) TP502(R)	-10,2dBV (309mV)	
NORM	REC/PLAY	315Hz (grabación y reproducción)/ STD-608A	2	VR305(L) VR306(R)	TP501 (L) TP502(R)	Grabar y reproduci efectuando correcc un nivel de reprodu dBV (309mV) de la	iones hasta obtene acción de -10,2
METAL	REC/PLAY	315Hz (grabación y reproducción)/STD-610	3		TP501 (L) TP502(R)	Confirmar que el ni ción de la señal de : -10,2 dBV ±2 dB.	
<ul> <li>Ajuste de</li> </ul>	la platina	• Esta unidad está	equ	uipada con selector aut	tomático de cinta.		
1. Ajuste del a		abeza (RVs de ajuste de nivel de re	epro			rario (posición MAX).	
Selector de cinta		Señal de entrada/ cinta de prueba			Puntos de medición	Valor de medición	Comentarios
NORM	PLAY	10kHz, -20dB (reproducción)/STD-331B		Tornillo de ajuste del ángulo de ca- beza (Fig. 7-4)	TP501 (L) TP502(R)	Máximo nivel de señal de repro-	Fijar e tornillo despus del ajuste.
2. Ajuste del • Este ajuste		roducción nível Dolby de reproducció	n, p		rse cuidadosament	<del></del>	ajusto.
Selector de cinta	Modo	Señal de entrada/ cinta de prueba		Puntos de ajuste	Puntos de medición	Valor de ajuste	Comentarios
NORM	PLAY	315Hz, 0dB (reproduc- ción)/STD-331B		VR303 (L) VR304 (R)	TP501 (L) TP502(R)	-10,2dBV (309mV)	
	e determina la	a de frecuencia de grabación, polarización de grabación, p		n/reproducción			n debidoa polariz
Selector de cinta	Modo	Señal de entrada/ cinta de prueba		Puntos de ajuste	Puntos de medición	Valor de ajuste	Comentarios
NORM	REC	Entrada de 315Hz al jack VIDEO.	1	Nivel de señal de entrada	TP501 (L) TP502(R)	-30,2dBV (31mV)	Coloca el RV d nivel di grabació en la pisicajón central
NORM	REC/PLAY	315Hz (grabación) y 10kHz (reproducción)/ STD-608A	2	VR311 (L) VR312(R)	TP501 (L) TP502(R)	Grabar y reproduci efectuando correcc un nivel de reprodu igual a 0±0,5 dB de	iones hata obten icción di 10 kHz

Selector de cinta	Modo	Señal de entrada/ Cinta de prueba		Puntos de ajuste	Puntos de medición	Valor de ajuste	Comentarios
NORM	REC	Entrada de 315Hz al jack VIDEO.	1	Nivel de señal de entrada	TP501 (L) TP502(R)	-10,2dBV (309mV)	
NORM	REC/PLAY	315Hz (grabación y reproducción)/ STD-608A	2	VR307 (L) VR308(R)	TP501 (L) TP502(R)	Grabar y reproducir repetidamente, efectuando correcciones hasta obter un nivel de reproducción de -10,2 dBV (309mV) de la señal de 315 Hz	
METAL	REC/PLAY	315Hz (grabación y reproducción)/STD-610	3		TP501 (L) TP502(R)	Confirmar que el nivel de reproción de la señal de 315 Hz sea -1 dBV ±2 dB.	

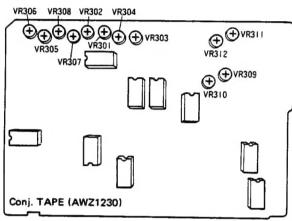
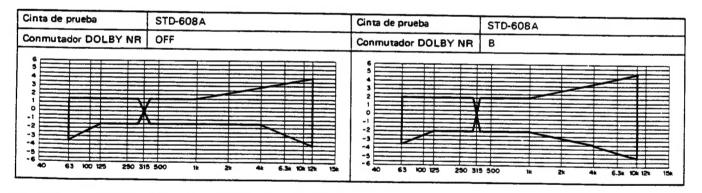


Fig. 7-6 Ajuste de las platinas I y II



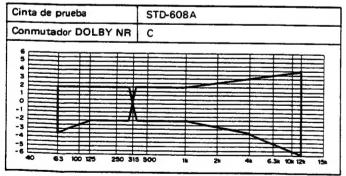
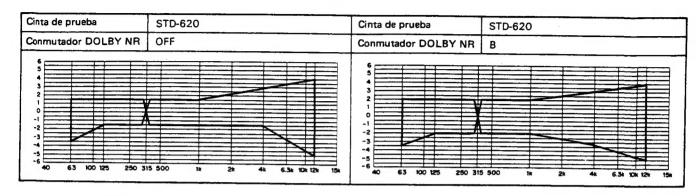


Fig. 7-7-1 Margenes permisibles de respuesta de frecuencia de grabación/reproducción (NORM)



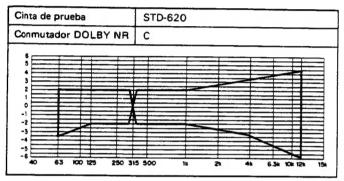
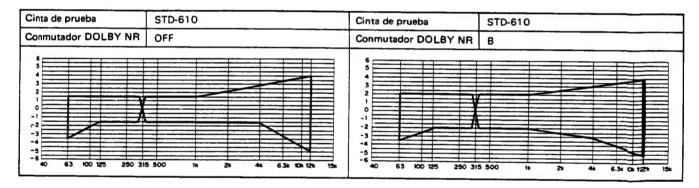


Fig. 7-7-2 Margenes permisibles de respuesta de frecuencia de grabación/reproducción (CrO<sub>2</sub>)



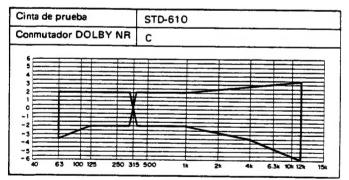


Fig. 7-7-3 Margenes permisibles de respuesta de frecuencia de grabación/reproducción (METAL)